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FIGURE 5196B

AGTTTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAAACTGGAGCAATGTTAT
TTTTAAAGGGTTTTTTTTCACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTTGTGTAG
GCTTTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGAT

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FIGURE 5197A

GTCTGCCAGCAACCGAGCGGGGCCCGGCCGAGCGGGGCCTGGGGGTGCGACGCCGAGGGCGGGGAGAGCGCGCC
GCTGCTCCCGGACCGGGCCGCGCACGCCGCCTCAGGAACCATCACTGTTGCTGGAGGCACCTGACAAATCCTAGC
GAATTTTTGGAGCATCTCCACCCAGGAACCTCGCCATCCAGAAAGTGTGCTTCCCGCACAGCTGCAGCCATGGGGT
CTGAGGACCACGGCGCCAGAACCCAGCTGTAAATCATGACGTTTCGCCCAACCATGGAAGAATTTAAAGACT
TCAACAAATACGTGGCCTACATAGAGTCGCAGGGAGCCACCAGGGCGGGCCTGGCCAAGATCATCCCCCGAAGG
AGTGGAAGCCGCGGCAGACGTATGATGACATCGACGACGTGGTGATCCCGGCGCCCATCCAGCAGGTGGTGACGG
GCCAGTCGGGCCTCTTCACGCAGTACAATATCCAGAAGAAGGCCATGACAGTGGGCGAGTACCGCCGCTGGCCA
ACAGCGAGAAGTACTGTACCCCGCGGCACCAGGACTTTGATGACCTTGAACGCAATACTGGAAGAACCTCACCT
TTGTCTCCCCGATCTACGGGGCTGACATCAGCGGCTCTTTGTATGATGACGACGTGGCCAGTGGAACATCGGGA
GCCTCCGGACCATCTGGACATGGTGGAGCGGAGTGGCGCACCATCATCGAGGGCGTGAACACGCCCTACCTGT
ACTTCGGCATGTGGAAGACCACCTTCGCCTGGCACACCGAGGACATGGACCTGTACAGCATCAACTACCTGCACT
TTGGGGAGCCTAAGTCTGTACGCCATCCACCAGAGCACGGCAAGCGCCTGGAGCGGCTGGCCATCGGCTTCT
TCCCCGGGAGCTCGCAGGGCTGCGACGCCTTCTGCGGCATAAGATGACCCTCATCTCGCCCATCATCTGAAGA
AGTACGGGATCCCTTCAGCCGGATCACGCAGGAGGCCGGGAATTCATGATCACATTTCCCTACGGCTACCACG
CCGGCTTCAATCACGGGTCAACTGCGCAGAATCTACCAACTTCGCCACCCTGCGGTGGATTGACTACGGCAAAG
TGGCCACTCAGTGCACGTGCCGGAAGGACATGGTCAAGATCTCCATGGACGTGTTCTGTCGCATCCTGCAGCCCG
AGCGCTACGAGCTGTGGAAGCAGGGCAAGGACCTCACGGTGTGGACCACACGCGGCCACGGCGCTCACCAGCC
CCGAGCTGAGCTCCTGGAGTGCATCCCGGGCCTCGCTGAAGGCCAAGCTCCTCCGAGGTCTCACCAGAAACGGA
GCCAGCCCAAGAAGCCGAAGCCGAAGACCCCAAGTTCCCTGGGGAGGGTACGGCTGGGGCAGCGCTCCTAGAGG
AGGCTGGGGGCGAGCGTGAAGGAGGAGGCTGGGCGGAGGTTGACCCCGAGGAGGAGGAGGAGGCCGAGCCAC
TGCCACACGGCCGGGAGGCCGAGGGCGCAGAAGAGGACGGGAGGGGCAAGCTGCGGCCAACCAAGGCCAAGAGCG
AGCGGAAGAAGAAGAGCTTCGGCCTGCTGCCCCACAGCTGCCGCCCGCCCTGCTCACTTCCCTCAGAGGAGG
CGCTGTGGCTGCCATCCCCACTGGAGCCCCCGGTGCTGGGCCAGGCCCTGCAGCCATGGAGGAGAGCCCCCTGC
CGGCACCCCTTAATGTCTGTGCCCCCTGAGGTGCCAGTGAAGGAGCTAGAGGCCAAGCCTCGGCCCATCATCCCCA
TGCTGTACGTGGTGCCGCGGGCCGGGCAAGGCAGCCTTCAACCAGGAGCACGTGTCTGCCAGCAGGCCCTTTGAGC
ACTTTGCCCAGAAGGGTCCGACCTGGAAGGAACAGTTTCCCCATGGAGCTGACGGGGCCAGAGGACGGTGCAG
CCAGCAGTGGGGCAGGTGCGATGGAGACCAAGCCCGGGCCGGAGAGGGGCAGGCACCGTCCACATTTTCCAAAT
TGAAGATGGAGATCAAGAAGAGCCGGCGCCATCCCTGGGGCCGGCGCCACCCGGTCCCCACTGTCCGTGGTGA
AGCAGGAGGCCTCAAGTGACGAGGAGGCATCCCTTTCTCCGGGGAGGAAGATGTGAGTGACCCGGACGCTTGA
GGCCGCTGCTGTCTCTGCAGTGAAGAACAGGGCGGCCAGCTTCCAGGCCGAGAGGAAGTTCAACGCAGCGGCTG
CGCGCACGGAGCCCTACTGCGCCATCTGCACGCTCTTCTACCCCTACTGCCAGGCCCTACAGACTGAGAAGGAGG
CACCCATAGCCTCCCTCGGAAAGGGCTGCCCGGCCACATTACCCTCCAAAAGCCGTCAGAAGACCCGACCGCTCA
TCCCTGAGATGTGCTTACCTCTGGCGGTGAGAACACGGAGCCGCTGCCTGCCAACTCCTACATCGGCGACGACG
GGACCAGCCCCCTGATCGCCTGCGGCAAGTGTGCTGCAGGTCCATGCCAGTTGCTATGGCATCCGTCCCGAGC
TGGTCAATGAAGGCTGGACGTGTTCCCGGTGCGCGGCCACGCCCTGGACTGCGGAGTGTGCTGTGCAACCTGC
GAGGAGGTGCGCTGCAGATGACCACCGATAGGAGGTGGATCCACGTGATCTGTGCCATCGCAGTCCCCGAGGCGC
GCTTCTGAACGTGATTGAGCGCCACCCTGTGGACATCAGCGCCATCCCCGAGCAGCGGTGGAAGCTGAAATGCG
TGTAATGCCGGAAGCGGATGAAGAAGGTGTCAGGTGCCTGTATCCAGTGCTCCTACGAGCACTGCTCCACGTCT
TCCAGTGACCTGCGCCACGCCGAGCGGTGCTCATGGAGCCGGACGACTGGCCCTATGTGGTCTCCATCACCT
GCCTCAAGCACAAGTCGGGGGGTACGCTGTCCAACCTCTGAGGGCCGTGTCCCTAGGCCAGGTGGTCAACCA
AGAACCAGCAACGGGCTGTACTACCGCTGTGCGTTCATCGGTGCCGCTCGCAGACCTGCTACGAAGTGAACCTCG
ACGATGGCTCCTACAGCGACAACCTGTACCCTGAGAGCATCACGAGTAGGGACTGTGTCCAGCTGGGACCCCTT
CCGAGGGGAGCTGGTGGAGCTCCGGTGGACTGACGGCAACCTCTACAAGGCCAAGTTTATCTCTCCGTACCA
GCCACATCTACCAGGTGGAGTTTGAAGACGGTCCCAGCTGACGGTGAAGCGTGGGGACATCTTACCCTGGAGG
AGGAGCTGCCCAAGAGGGTCCGCTCTCGGCTGTACTGAGCACGGGGGACCCGAGGAGCCCGCTTCTCGGGG
AGGAGGCCAAGGCCGCCAAGCGCCCGCTGTGGGACCCCGCTTGCCACGAGGACTCCGGGCGGAGCCAGGACT
ACGTGGCCTTCTGTGGAGAGCCTCCTGCAGGTGACGGGCGGGCCGGAGCCCCCTTCTAGGACAGCTGGCCGCTCA
GGCGACCCTCAGCCCGGCGGGGAGGCCATGGCATGCCCGGGCGTTGCTTGTGTGAATTCCTGTCTCTGTCT

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FIGURE 5197B

CCCGACCCCCGAGAGGCCACCTCCAAGCCGCGGGTGCCCCCTAGGGCGACAGGAGCCAGCGGGACGCCGCACGCG
GCCCCAGACTCAGGGAGCAGGGCCAGGCGGGCTCGGGGGCCGGCCAGGGGAGCACCCCACTCAACTACTCAGAAT
TTTAAACCATGTAAGCTCTCTTCTCTCGAAAAGGTGCTACTGCAATGCCCTACTGAGCAACCTTTGAGATTGTC
ACTTCTGTACATAAAACCACCTTTGTGAGGCTCTTTCTATAAATACATATTGTTTAAAAAAAAGCAAGAAAAAAG
GAAAACAAAGGAAAAATATCCCCAAAGTTGTTTTCTAGATTTGTGGCTTTAAGAAAAACAAAACAAAACACA
TTGTTTTTCTCAGAACCAGGATTCTCTGAGAGGTGAGAGCATCTCGCTGTTTTTTTTGTGTTGTTTTAAATATT
ATGATTTGGCTACAGACCAGGCAGGGAAAGAGACCCGGTAATTGGAGGGTGAGCCTCGGGGGGGGGGCAGGACGC
CCCGGTTTTCGGCACAGCCCGGTCACTCACGGCCTCGCTCTCGCCTCACCCCGGCTCCTGGGCTTTGATGGTCTGG
TGCCAGTGCCCTGTGCCACTCTGTGCCTGCTGGGAGGAGGCCAGGCTCTCTGGTGGCCGCCCTGTGCACCTGG
CCAGGGGAAGCCCGGGGGTCTGGGGCCTCCCTCCGTCTGCGCCACCTTTGCAGAATAAACTCTCTCCTGGGGTT
TGTCTATCTTTGTTTTCTCTCACCTGAGAGAAACGCAGGTGTTCCAGAGGCTTCCTTGACAGACAAAGCACCCCTGC
ACCTCCTATGGCTCAGGATGAGGGAGGCCCCCAGGCCCTTCTGGTTGGTAGTGAGTGTGGACAGCTTCCCAGCTC
TTCGGGTACAACCTGAGCAGGTGCGGGGACACAGGGCCGAGGCAGGCCTTCGGGGCCCCCTTCGCTGCTTCCG
GGCAGGGACGAGGCCTGGTGTCTCGCTCCACCCACCCACGCTGCTGTACCTGAGGGGAATCTGCTTCTTAGGA
GTGGGTTGAGCTGATAGAGAAAAACGGCCTTCAGCCCAGGCTGGGAAGCGCCTTCTCCAGGTGCCTCTCCCTCA
CCAGCTCTGCACCCCTCTGGGGAGCCTTCCCCACCTTAGCTGTCTCCTGCCCCAGGGAGGGATGGAGGAGATAAT
TTGCTTATATTAAAAACAAAAATGGCTGAGGCAGGAGTTGGGACCAGCCTGGGCTATATAGCAAGACCCCATC
ACTACAAATTTTTTACAAATTAGCTAGGTGTGGTGGTGCACCTGTGGTCCCAGCTACTCGGGAGGCTGTGGTG
GGAGGATTGCTTGAGTCCAGGAGGTTGAGGCTGCAGTCAGCTCAGATTGCACCACTGCACCTCCAGCCTGGGCAAC
AGAGCGAGACCCTGTCTCCAAAAAAGCAATGTTTATATTATAAAGAGTGTCCTAACAGTCCCCGGG
CTAGAGAGGACTAAGGAAAACAGAGAGAGTGTTACGCAGGAGCAAGCCTTTCATTTCTTGGTGGGGGAGGGGGG
CGGTTGCCCTGGAGAGGGCCGGGGTGGGGAGGTTGGGGGGTGTGAGCCAAAACGTGGAGGTGTCCCTCTGCACG
CAGCCCTCGCCCGGCGTGGCGCTGACACTGTATTCTTATGTTGTTTGAAAATGCTATTTATATTGTAAAGAAGCG
GGCGGGTGCCCTGCTGCCCTTGTCCCTTGGGGGTACACCCATCCCTGGTGGGCTCCTGGGCGGCCTGCGCAG
ATGGGCCACAGAAGGGCAGGCCGGAGCTGCACACTCTCCACGAAGGTATCTCTGTGTCTTACTCTGTGCAAAG
ACGCGGCAAAACCCAGTGCCCTGGTTTTTCCCCACCCGAGATGAAGGATACGCTGTATTTTTTGCCTAATGTCCC
TGCTCTAGGTTTATAATGAATTAAAGGTTTCATGAACGCTGC

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FIGURE 5198

MGSEDHGAQNPSCKIMTFRPTMEEFKDFNKYVAYIESQGAHRAGLAKIIPPKEWKPRQTYDDIDDVVIPAPIQQV
VTGQSGLFTQYNIQKKAMTVGEYRRLANSEKYCTPRHQDFDRLERKYWKNLTFVSPFIYGADISGSLYDDDDVAQWN
IGSLRTILDMVERECGTIIIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYLHFGEPKSWYAIPPEHGKRLERLAI
GFFPGSSQGCD AFLRHKMTLISPIILKKYGIPFSRITQEAGEFMITFPYGYHAGFNHGFNCAESTNFATLRWIDY
GKVATQCTCRKDMVKISMDVFVRILQPERYELWKQKDLTVLDHTRPTALTSPELSSWSASRASLKAKLLRRSHR
KRSQPKPKPEDPKFPGEGETAGAALEEAGGSVKEEAGPEVDPEEEEEEPQPLPHGREAEAGAEEDGRGKLRPTKA
KSERKKKSFGLLPPLPPPAHFPSEEALWLPSPLEPPVLGPGPAAMEESPLPAPLNVVPPEVPSEELEAKPRPI
IPMLYVVRPGKAAFNQEHVSCQQAFAEHFAQKGPTWKEPVSPMELTGPEDGAASSGAGRMETKARAGEGQAFSTF
SKLKMEIKKSRRHPLGRPPTRSPLSVVQKEASSDEEASPFSGEEDVSDPDALRPLLSLQWKNRAASFQAERKFNA
AAARTEPYCAICTLFYPYCQALQTEKEAPIASLGKGCPTLP SKSRQKTRPLIPEMCF TSGGENTEPLPANSYIG
DDGTSPLIACGKCC LQVHASCYGIRPELVNEGWTCSRCAAHAWTAECCLCNLRGGALQMTTDRRWIHVICAIAVP
EARFLNVIERHPVDISAIPEQRWKLKCVYCRKRMKKVSGACIQCSYEH CSTSFHVTC AHAAGVLM EPDDWPYVVS
ITCLKHKSGGHAVQLLRAVSLGQVVITKNRNGLYYRCRVIGAASQTCYEVNFDDGSYSDNLYPESITSRDCVQLG
PPSEGELVELRWTDGNLYKAKFISSVTSHIYQVEFEDGSQLT VKRGDIFTLEELPKRVRSRLSLSTGAPQEP AF
SGEEAKAAKRPRVGTPLATEDSGRSQDYVAFVESLLQVQGRPGAPF

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FIGURE 5199

TGCGACTGAGTCGGTGGCGAAGACGGGAACGCGACGATCGCGGAGACTCTGCCCGGGTCGGGCGACTCGGGCCCT
GGCACGGCTTCTCTCGGCCCGGGCGTTGCGGAGACTGGGACGAGGCGGCTCAGCGAGCTGCGGGTGATCGATCTG
CGGGCGGAGCTGAAGAAGCGGAACCTGGACACGGGCGGCAACAAGAGCGTCCTGATGGAGCGGCTCAAGAAGGCG
GTTAAAGAAGAGGGGGCAAGATCCTGATGAAATTGGCATCGAGTTAGAAGCCACCAGCAAGAAGTCAGCCAAGAGA
TGTGTTAAAGGACTGAAGATGGAGGAGGAAGGCACAGAAGATAATGGCCTGGAAGACGATTCCAGAGACGGGCG
GAGGACATGGAAGCAAGTCTGGAGAACCTGCAGAATATGGGCATGATGGACATGAGTGTGCTAGACGAAACTGAA
GTGGCGAATAGCAGTGCTCCAGATTTTGGGGAGGATGGCACGGACGGCCTTCTCGATTCTTTTGTGATAGTAAA
GAATACGTGGCTGCACAGCTGAGACAGCTCCCGGCTCAGCCCCAGAGCATGCTGTGGATGGGGAAGGATTTAAG
AACACTTTGGAAACTTCATCGTTGAACTTCAAAGTAACTCCGGACATTGAAGAATCCCTTTTGGAGCCAGAAAAT
GAGAAAATACTCGACATTTTGGGGGAACTTGTAAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAG
CCATTTGCACAGGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGCGGAGGAAGAGGACCTATTTGACAGCGCC
CATCCGGAAGAGGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTG
TTAGCGGTAGTGAAGAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTA
GAGCCGGCAGTTGAGCAGAGTAGTGCGGCCCTCCGAGCTCGCGGAGGCCTCTAGCGAGGAGCTCGCAGAAGCACCC
ACGGAAGCCCCAAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAATGAA
GTCCCTCCGGCTCCTAAAGAGTCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGCTCTTTTAAGGAAGAAAAA
GATATAAAGCCAATCATTAAAGATGAAAAAGGTGCGGTGCGCAGCGGTTCTGGTCGGAACCTGTGGGTGAGCGGG
CTGTCTCCACAACACGCGCTACGGATCTCAAGAACCCTTTTCAGCAAGTATGGGAAGGTTGTGCGGGGCCAAAGTG
GTAACGAACGCCCGCAGCCCGGGGGCTCGATGCTATGGATTCTGTCACCATGTGACATCTGACGAGGCACCAAG
TGATCAGCCATCTCCACAGAAGTGAAGTGCATGGACGAATGATCTCCGTAGAGAAGGCCAAAAATGAGCCTGCT
GGGAAAAGCTTTCCGACAGAAAAGAGTGCGAAGTGAAGAAGGAAAAATTATCGAGTGTCGACAGACATCATTCT
GTGGAGATCAAAATTGAAAAACTGTAAATTAAGAAGGAAGAGAAGATTGAGAAGAAGGAGGAAAAAAGCCTGAA
GACATTAAGAAGGAAGAAAAAGACCAGGATGAGCTGAAACCCGGACCTACAAATCGGTCTAGAGTCACCAAATCA
GGAAGCAGAGGAATGGAGCGGACGGTCTGATGGATAAATCGAAAGGAGAGCCCGTCATTAGCGTGAAAACCA
AGCAGGTCCAAAGAGAGAAGCTCCAAGAGTCAGGATCGCAAGTCAGAAAGCAAAGAAAAGAGAGACATCTTGTCG
TTTGATAAAATCAAAGAACAAGGGAGAGAGAGCGCCAGAGGCAGCGGGAACGGGAGATCCGCGAAACGGAGAGG
CGCGGGGAGCGCGAGCAGCGGGAGCGGGAGCAACGCCCTCGAGGCCTTCCATGAGCGGAAGGAGAAGGCCCGGCTA
CAGCGGGAACGCCCTGCAGCTCGAGTGCCAGCGCCAGCGGCTGGAGCGGGAGCGCATGGAGCGGGAGCGGCTGGAG
CGCGAGCGCATGCGCGTGGAGCGTGAGCGCAGGAAGGAGCAGGAGCGCATCCACCGCGAGCGCGAGGAGCTGCGG
CGCCAGCAGGAGCAGCTGCGTTACGAGCAGGAGCGGCGGCCCGGGCGGAGGCCCTACGACCTGGACCGACGAGAT
GATGCCTATTGGCCAGAAGGAAAGCGTGTGGCAATGGAGGACCGATATCGTGCAGACTTTCCCCGGCCAGACCAC
CGCTTTCACGACTTCGATCATCGAGACCGGGGCCAGTACCAGGACCACGCCATCGACAGGCGGGAGGGTTTCGAGG
CCAATGATGGGAGACCACCGGGATGGGCAGCACTATGGAGATGACCGCATGGCCACGGAGGACCCCCAGAGCGC
CACGGCCGGGACTCCCGTGATGGCTGGGGGGGCTACGGCTCCGACAAGAGGCTGAGTGAAGGCCGGGGGCTGCC
CCTCCCCCAGGGGTGGCCGTGACTGGGGAGAGCAACACAGCGGCTAGAGGAGCACCAGGCACGCGCCTGGCAG
GGTGCCATGGACGCAGGCGCGGCTAGCCGGGAGCAGCCAGGTGGCAAGGTGGCGAGAGGGGCTGTCTGGGCC
TCGGGGCCGGGGCACATGGCAAGCCGCGGTGGAGTGGCGGGGCGAGGCGCTTTGCACAAGGTGGACATTCCAG
GGCCACGTGGTGCCAGGTGGCGGACTGGAAGGTGGCGGAGTGCCAGCCAGGACCGGGGCGAGAGTCCCTCAC
CCACACCCTCATCCCCCGTACCCCCACTTCACCGCCGCTACTAAGTCCCCTCGTGTGAGTTTTTCGGGTG
GGCAGACGCACTGTTGAATCTGGTAGCCAGGGTTCCCTCGAAGCTTGGGGGATCTTTTAAAGCAAAGTAAATCC
TGCCACCATGTTGTAGCTCAATACAATGTGAAGTCACTTTTTTTTTTTTTTTTAAATAAATGTGTTCTTGTCTGC
CATTTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTCCATTAATAAAGTTTACCATTGCAAAAAAAA
ATGTGTTCTTGTCTGCCATTTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTTCCATTAATAAAGTTT
CCATTCG

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FIGURE 5200

MAETLPGSGDSGPGTASLGPGVAETGTRRLSELRVIDLRAELKKRNLDTGGNKSVLMERLKKAVKEEGQDPDEIG
IELEATSKKSAKRCVKGLKMEEEGTEDNGLEDDSRDQGEDMEASLENLQNMGMMDMSVLDTEVANSSAPDFGED
GTDGLLD SFCD SKEYVAAQLRQLPAQPPEHAVDGEFGKNTLETSSLNFKVTPDIEESLLEPENEKILDILGETCK
SEPVKEESSELEQPFAQDTSSVGPDRKLAEEDLFD SAHP EEGDL DLASESTAH AQSSKADSL LAVVKREP AEQP
GDGERTDCEPVGLEPAVEQSSAASELAEASSEELAEAPTEAPSPPEARDSKEDGRKFDFDACNEVPPAPKESSTSE
GADQKMSSFKEEKDIKPIIKDEKGRVSGSGRNLWVSGLSSTTRATDLKNLFSKYGKVVGAKVVTNARSPGARC
GFVTMSTSD EATKCI SHLHRTELHGRMISVEKAKNEPAGKKLSDRKECEVKKEKLSSVDRHHSVEIKIEKTVIKK
EEKIEKKEEKKPEDIKKEEKDQDELKPGPTNRSRVTKSGSRGMERTVVMDSKSGEPVISVKTTSRSKERSSSKSQD
RKSESKEKRDILSFDKIKEQRERERQRQREREIRETERRREREQREREQRLEAFHERKEKARLQERLQLECQRQ
RLERERMERERLERERMRVERERRKEQERIHREERELRRQQEQLRYEQERRPGRRPYDLDRRDDAYWPEGKRVAM
EDRYRADFP RP DHRFHD FDHRDRGQYQDHAIDRREGSRPMMGDHRDGQHYGDDRHHGHGGPPERHGRDSRDGWGGY
GSDKRLSEGRGLPPPPRGGRDWGEHNQRLEE HQARAWQ GAMDAGAASREHARWQGGERGLSGPSGPGHMASRGGV
AGRGGFAQGGHSQGHVVPGGGLEGGGVASQDRGSRVPHPHPHPPYPHFTRRY

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FIGURE 5201

GACCGGGGCGTGCGGAGGGATGTGGCCCCGGAATATTGGTAGGGGGGGCCCCGGGTGGCGTCATGCAGGTACCCCGC
GCTGGGGCCTCGCCTCGCCGCTCACTTTCCAGCGCAGCGGCCGCCGAGCGGACACTCCAGAACGGCCTGGCCCT
GCAGCGGTGCCTGCACGCGACGGCGACCCGGGCTCTCCCGCTCATTCCCATCGTGGTGGAGCAGACGGGTCGCGG
CGAGCGCGCCTATGACATCTACTCGCGGCTGCTGCGGGAGCGCATCGTGTGCGTCATGGGCCCCGATCGATGACAG
CGTTGCCAGCCTTGTTATCGCACAGCTCCTCTTCCTGCAATCCGAGAGCAACAAGAAGCCCCATCCACATGTACAT
CAACAGCCCTGGTGGTGTGGTGACCGCGGGCCTGGCCATCTACGACACGATGCAGTACATCCTCAACCCGATCTG
CACCTGGTGCCTGGGCCAGGCCGCCAGCATGGGCTCCCTGCTTCTCGCCGCCGGCAGCCCCAGGCATGCGCCACTC
GCTCCCCAACTCCCGTATCATGATCCACCAGCCCTCAGGAGGCGCCCGGGGCCAAGCCACAGACATTGCCATCCA
GGCAGAGGAGATCATGAAGCTCAAGAAGCAGCTCTATAACATCTACGCCAAGCACACCAAACAGAGCCTGCAGGT
GATCGAGTCCGCCATGGAGAGGGACCGCTACATGAGCCCCATGGAGGCCAGGAGTTTGGCATCTTAGACAAGGT
TCTGGTCCACCCTCCCCAGGACGGTGAGGATGAGCCACGCTGGTGCAGAAGGAGCCTGTAGAAGCAGCGCCGGC
AGCAGAACCTGTCCAGCTAGCACCTTGAGAGCTGGGCCTCCTCTCCAGAATCATGTGGAGGGGCCAGAGGCTTGC
CAGACCCCCAGCTGGGCCCTGCTCACCCCTTGTTGCTGGGCTTGAGGGGCCCTCTGAGGAACTTTTAATTTGCA
GGGGTGCCCGCTATGGACGGGGCATTCCAGCTGAGACACTGTGATTTTAAATTAAATCTTTGTGGTCTT

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FIGURE 5202

MWPGILVGGARVASCRYPALGPRLAAHFPAQRPPQRTLQNGLAHQRLHATATRALPLIPIVEQTGRGERAYDI
YSRLLRERIVCMGPIDDSVASLVIAQLLFLOQESNKKPIHMYINSPGGVVTAGLAIYDTMQYILNPICWCVGQ
AASMGSLLLAAGTPGMRHSLPNSRIMIHQPSGGARGQATDIAIQAEEMKLKKQLYNIYAKHTKQSLQVIESAME
RDRYMSPMEAQEFGILDKVLVHPPQDGEDEPTLVQKEPVEAAPAAEPVPAST

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FIGURE 5203

TGTGGAGCGAAGCCTTGTTCCCGCGTTGAGCCGCCGCCGCCGCCGCCCTCCTCAGCTTCAGCCTCCGCGCCAG
GCCCCGCCCCGCGCGCCATGTCGGACTACAGCACGGGAGGACCCCCGCCCGGGCCGCCGCCGCCGCCGCCGCGGG
GGCGGGGGAGCCGGAGGCGCCGGGGGAGGCCCTCCGCCGGGCCGCCAGGCGCGGGGGACCGGGCGGCGGCGGT
CCCTGCGGCGGCGGCCCCGGGCGGGGGGTGCGCCGGGGGCCCTCTCAGCCACCCGGCGGAGGCGGCCCGGGAATC
CGCAAGGACGCTTTTCGCCGACGCCGTGCAGCGGGGCCGCCAGATTGCAGCCAAAATTGGAGGCGATGCTGCCACG
ACAGTGAATAACAGCACTCCTGATTTTGGTTTTGGGGGCCAAAAGAGACAGTTGGAAGATGGAGATCAACCGGAG
AGCAAGAAGCTGGCTTCCAGGGAGACTCAATCAGTTCTCAACTTGGACCCATCCATCCTCCCCAAGGACTTCA
ATGACAGAAGAGTACAGGGTCCAGACGGCATGGTGGGCCTGATCATTGGCAGAGGAGGTGAACAAATTAACAAA
ATCCAACAGGATTAGGCTGCAAAGTACAGATTTCTCCAGACAGCGGTGGCCTACCCGAGCGCAGTGTGTCTTG
ACAGGAGCCCCAGAATCTGTCCAGAAAGCCAAGATGATGCTGGATGACATTGTGTCTCGGGGTCTGGGGGGCCCC
CCAGGACAGTTCCACGACAACGCCAACGGGGGCCAGAACGGCACCCTGCAGGAGATCATGATCCCCGCGGGCAAG
GCCGGCCTGGTCATTGGCAAGGGCGGGGAGACCATTAAGCAGCTGCAGGAACGCGCTGGAGTGAAGATGATCTTA
ATTAGGACGGATCTCAGAATACGAATGTGGACAAACCTCTCCGCATCATTGGGGATCCTTACAAAGTGCAGCAA
GCCTGTGAGATGGTGTGACATCCTCCGGGAACGTGACCAAGGCGGCTTTGGGGACCGGAATGAGTACGGATCT
CGGATTGGCGGAGGCATCGATGTGCCAGTGCCAGGCATTCTGTTGGCGTGGTCATTGGCCGGAGTGGAGAGATG
ATCAAGAAGATCCAGAATGATGCTGGCGTGCAGTACAGTTCAAGCAAGATGACGGGACAGGGCCCCGAGAAGATT
GCTCATATAATGGGGCCCCCAGACAGGTGCGAGCACGCAGCCCGGATCATCAACGACCTCCTCCAGGCCTCAGG
AGTGGTCCCCCAGGTCCTCCAGGGGGTCCAGGCATGCCCCGGGGGGCCGAGGCCGAGGAAGAGGCCAAGGCAAT
TGGGGTCCCCCTGGCGGGGAGATGACCTTCTCCATCCCCACTCACAAGTGTGGGCTGGTCATCGGCCGAGGTGGC
GAGAATGTGAAAGCCATAAACCAGCAGACGGGAGCCTTCGTAGAGATCTCCCGGCAGCTGCCACCAACGGGGAC
CCCAACTTCAAGTTGTTTCATCATCCGGGGTTTACCCAGCAGATTGACCACGCCAAGCAGCTTATCGAGGAAAAG
ATCGAGGGTCTCTCTGCCAGTTGGACAGGGCCAGGTGGCCCAGGCCCTGCTGGCCCAATGGGGCCCTTCAAT
CCTGGGCCCTTCAACCAGGGGCCACCCGGGGCTCCCCACATGCCGGGGGGCCCCCTCCTCACCAGTACCCACCC
CAGGGCTGGGGCAATACCTACCCCCAGTGGCAGCCGCTGCTCCTCATGACCCAAGCAAAGCAGCTGCAGCGGCC
GCGGACCCCAACGCCGCGTGGGCCGCCTACTACTCACACTACTACCAGCAGCCCCCGGGCCCCGTCCCCGGCCCC
GCACCGGCCCTGCGGCCCCACCGGCTCAGGGTGAGCCCCCTCAGCCCCACCCACCGGCCAGTCCGACTACACT
AAGGCCTGGGAAGAGTATTACAAAAGATCGGCCAGCAGCCCCAGCAGCCCGGAGCGCCCCACAGCAGGACTAC
ACGAAGGCTTGGGAGGAGTACTACAAGAAGCAAGCGCAAGTGGCCACCGGAGGGGTCCAGGAGCTCCCCCAGGC
TCCCAGCCAGACTACAGTGCCGCTGGGCGGAATATTACAGACAGCAGGCCGCTTACTACGGACAGACCCCAAGT
CCTGGCGGCCCCCAGCGCGGCCACGCAGCAGGGACAGCAGCAGGCTCAATGAATCGAATGAATGTGAATTCT
TCATCTGTGAAAAATCTTTTTTTTTTCCATTTTGTCTGTTTGGGGGCTTCTGTTTTGTTTGGCGAGAGAGCGAT
GGTGCCGTGGGAGTACTGGGGAGCCCTCGCGGAAGCAGGGTGGGGGGGACTTGGGGGCATGCCGGGCCCTCAC
TCTCTGCGCTGTTCTGTGTCTCACATGCTTTTTCTTTCAAATTGGGATCCTTCCATGTTGAGCCAGCCAGAGAA
GATAGCGAGATCTAAATCTCTGCCAAAAAAAAAAAAAATTAAAAATTAAAAACAAAAAGAGCAAAGCAGAACTT
ATAAAATTATATATATATATATATTAATAAGTCTCTATTCTTACCCCCCAGCCTTCTGAACCTGCCTCTCTGAGG
ATAAAGCAATTCATTTTCTCCACCCCTCGGCCCTCTGTTTTTAAATAAACTTTTAAAAAGGAAAAAAAAAAGT
CACTCTTGCTATTTCTTTTTTTTAGTTAGAGGTGGAACATTCTTGGACCAGGTGTTGTATTGCAGGACCCCTTC
CCCCAGCAGCCAAGCCCCCTTCTCTCCCTCCCGCCCTGGCTCAGCTCCCGCGGCCCGCCCGTCCCCCTCCC
AGGACTGGTCTGTTGTCTTTTCATCTGTTCAAGAGGAGATTGAACTGAAAACAAAATGAGAACAACAAAAAAA
TTGTATGGCAGTTTTTACTTTTTATCGCTGTTTTTAACTTCACAAATAAATGATAACAAAACCTCAAAAAAAAA
AAAAAAA

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FIGURE 5204

MSDYSTGGPPPGPPPPAGGGGGAGGAGGGPPPGPPGAGDRGGGGPCGGGPGGGSAGGPSQPPGGGGPGIRKDAFA
DAVQRRARQIAAKIGGDAATTVNNSTPDFGFGGQKRQLEDGDQPESKKLASQGDSISSQLGPIHPPPRTSMTTEEYR
VPDGMVGLIIIGRGGEQINKIQD SGCKVQISPDSGGLPERSVSLTGAPESVQKAKMMLDDIVSRGRGGPPGQFHD
NANGGQNGTVQEIMIPAGKAGLVIGKGETIKQLQERAGVKMILIQDGSQNTNVDKPLRIIGDPYKVQQACEMVM
DILRERDQGGFGDRNEYGSRI GGGIDVPVPRHSVGVVIGRSGEMIKKI QNDAGVRIQFKQDDGTGPEKIAHIMGP
PDRCEHAARIINDLLQSLRSGPPGPPGGPGMPPGGRGRGRGQGNWGPPGGEMTFSIPTHKGLVIGRGGENVKAI
NQQTGAFVEISRQLPPNGDPNFKLFIIRGSPQQIDHAKQLIEEKIEGPLCPVGP GPGGPGPAGPMGPFNP GPFNQ
GPPGAPPHAGGPPPHQYPPQGWNTPQWQPPAPHDPSKAAAAAADPNAAWAAYYSHYYQQPPGPFVPGPAPAPAA
PPAQGEPPQPPPTGQSDYTKAWEEYYKKI GQQPQQPGAPPQQDYTKAWEEYYKKQAQVATGGGPGAPPGSQPDYS
AAWAEYYRQQAAYYGQTPGPGGPQPPPTQQGQQQAQ

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FIGURE 5205A

CTCCTCCCCATCCTCTCCCTCTGTCCCTCTGTCCCTCTGACCCTGCACTGTCCCAGCACCATGGGACCCACCTCA
GGTCCCAGCCTGCTGCTCCTGCTACTAACCACCTCCCCCTGGCTCTGGGGAGTCCCATGTACTCTATCATCACC
CCCAACATCTTGGCGCTGGAGAGCGAGGAGACCATGGTGTGGAGGCCACGACGCGCAAGGGGATGTTCCAGTC
ACTGTTACTGTCCACGACTTCCCAGGCAAAAACTAGTGTGTCCAGTGAGAAGACTGTGTGACCCCTGCCACC
AACCACATGGGCAACGTACCTTCACGATCCCAGCCAACAGGGAGTTCAAGTCAGAAAAGGGGCGCAACAAGTTC
GTGACCGTGCAGGCCACCTTCGGGACCCAAGTGGTGGAGAAGGTGGTGTGGTCAGCCTGCAGAGCGGGTACCTC
TTCATCCAGACAGACAAGACCATCTACACCCCTGGCTCCACAGTTCTCTATCGGATCTTCACCGTCAACCACAAG
CTGCTACCCGTGGGCCGGACGGTCATGGTCAACATTGAGAACCCGGAAGGCATCCCGGTCAAGCAGGACTCCTTG
TCTTCTCAGAACCAGCTTGGCGTCTTGCCCTTGTCTTGGGACATTCCGGAACCTCGTCAACATGGGCCAGTGGAAG
ATCCGAGCCTACTATGAAAACCTACCACAGCAGGTCTTCTCCACTGAGTTTGAGGTGAAGGAGTACGTGCTGCCC
AGTTTCGAGGTCAAGTGGAGCCTACAGAGAAATTCTACTACATCTATAACGAGAAGGGCCTGGAGGTACCATC
ACCGCCAGGTTCTCTACGGGAAGAAAGTGGAGGGAAGTGCCTTTGTATCTTCGGGATCCAGGATGGCGAACAG
AGGATTTCCCTGCCTGAATCCCTCAAGCGCATTCCGATTGAGGATGGCTCGGGGGAGGTTGTGCTGAGCCGGAAG
GTACTGCTGGACGGGGTGCAGAACCCCGAGCAGAAGACCTGGTGGGGAAGTCTTTGTACGTGTCTGCCACCGTC
ATCTTGCACTCAGGCAGTGACATGGTGCAGGCAGAGCGCAGCGGGATCCCCATCGTGACCTCTCCCTACCAGATC
CACTTCACCAAGACACCCAAGTACTTCAAACCAGGAATGCCCTTTGACCTCATGGTGTCTGTGACGAACCTGAT
GGCTCTCCAGCCTACCGAGTCCCCGTGGCAGTCCAGGGCGAGGACACTGTGCAGTCTCTAACCAGGGAGATGGC
GTGGCCAAACTCAGCATCAACACACACCCCGAGCCAGAAGCCCTTGAGCATCACGGTGCACGAAGAAGCAGGAG
CTCTCGGAGGCAGAGCAGGCTACCAGGACCATGCAGGCTCTGCCCTACAGCACCGTGGGCAACTCCAACAATTAC
CTGCATCTCTCAGTGCTACGTACAGAGCTCAGACCCGGGGAGACCCTCAACGTCAACTCTCTCCTGCGAATGGAC
CGCGCCACGAGGCCAAGATCCGCTACTACACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGGCGGGACGC
CAGGTGCGAGAGCCCGGCCAGGACCTGGTGGTGTGCCCCGTGCCATCACCACCGACTTCATCCCTTCTCTCCGC
CTGGTGGCGTACTACAGCTGATCGGTGCCAGCGGCCAGAGGGAGGTGGTGGCCGACTCCGTGTGGGTGGACGTC
AAGGACTCCTGCGTGGGCTCGCTGGTGGTAAAAAGCGGCCAGTCAGAAGACCGGCAGCCTGTACCTGGGCAGCAG
ATGACCCTGAAGATAGAGGGTGACCACGGGGCCCGGGTGGTACTGGTGGCCGTGGACAAGGGCGTGTTCGTGCTG
AATAAGAAGAACAACTGACGCAGAGTAAGATCTGGGACGTGGTGGAGAAGGCAGACATCGGCTGCACCCCGGGC
AGTGGGAAGGATTACGCCGGTGTCTTCTCCGACGCAGGGCTGACCTTCACGAGCAGCAGTGCCAGCAGACCGCC
CAGAGGGCAGAACTTCAGTGCCCGCAGCCAGCCGCGCCGACGCGCTTCCGTGCAGCTCACGGAGAAGCGAATG
GACAAAGTCGGCAAGTACCCCAAGGAGCTGCGCAAGTGTGCGAGGACGGCATGCGGGAGAACCCCATGAGGTTT
TCGTGCCAGCGCCGGACCCGTTTCTCTCCCTGGGCGAGGCGTGCAAGAAAGTCTTCTTGACTGCTGCAACTAC
ATCACAGAGCTGCGGCGGCAGCACGCGCGGGCCAGCCACCTGGGCCTGGCCAGGAGTAACCTGGATGAGGACATC
ATTGCAGAAGAGAATCGTTTCCCGAAGTGAGTTCCAGAGAGCTGGCTGTGGAACGTTGAGGACTTGAAAGAG
CCACCGAAAAATGGAATCTCTACGAAGCTCATGAATATATTTTTGAAAGACTCCATCACCACGTGGGAGATTCTG
GCTGTGAGCATGTGCGACAAGAAAGGGATCTGTGTGGCAGACCCCTTCGAGGTCACAGTAATGCAGGACTTCTTC
ATCGACCTGCGGCTACCTACTCTGTTGTTGAAACGAGCAGGTGGAAATCCGAGCCGTCTCTACAATTACCGG
CAGAACCAAGAGCTCAAGGTGAGGTGGAATACTCCACAATCCAGCCTTCTGCAGCCTGGCCACCACCAAGAGG
CGTCACCAGCAGACCGTAACCATCCCCCAAGTCTCGTTGTCCGTTCATATGTATCGTGCCGCTAAAGACC
GGCCTGCAGGAAGTGAAGTCAAGGCTGTGTCTACCATCATTTTCATCAGTGACGGTGTGAGGAAGTCCCTGAAG
GTCGTGCCGGAAGGAATCAGAATGAACAAAACCTGTGGCTGTTCGCACCTGGATCCAGAACGCTGGGCCGTGAA
GGAGTGCAGAAAGAGGACATCCACCTGCAGACCTCAGTGACCAAGTCCCGACACCGAGTCTGAGACCAGAATT
CTCCTGCAAGGGACCCAGTGGCCAGATGACAGAGGATGCCGTGACGCGGAACGGCTGAAGCACCTCATTGTG
ACCCCTTCGGGCTGCGGGGAACAGAACATGATCGGCATGACGCCCACGGTCATCGCTGTGCATTACCTGGATGAA
ACGGAGCAGTGGGAGAAGTTCGGCCTAGAGAAGCGGAGGGGGCTTGGAGCTCATCAAGAAGGGGTACACCCAG
CAGCTGGCCTTCAGACAACCCAGCTCTGCCCTTTCGGCCCTTCGTGAAACGGGACCCAGCACCTGGCTGACCGCC
TACGTGGTCAAGGTCTTCTCTGTGCTGTCAACCTCATCGCATCGACTCCCAAGTCTCTCGGGGCTGTAA
TGGCTGATCCTGGAGAAGCAGAAGCCCGACGGGGTCTTCCAGGAGGATGCGCCCGTGATACCAAGAAATGATT
GGTGGATTACGGAACAACAACGAGAAAGACATGGCCCTCACGGCCTTTGTTCTCATCTCGCTGCAGGAGGCTAAA
GATATTTGCGAGGAGCAGGTCAACAGCCTGCCAGGCAGCATCACTAAAGCAGGAGACTTCTTGAAGCCAACCTAC

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FIGURE 5205B

ATGAACCTACAGAGATCCTACACTGTGGCCATTGCTGGCTATGCTCTGGCCCAGATGGGCAGGCTGAAGGGGCCT
CTTCTTAACAAATTTCTGACCACAGCCAAAGATAAGAACCGCTGGGAGGACCCTGGTAAGCAGCTCTACAACGTG
GAGGCCACATCCTATGCCCTCTTGGCCCTACTGCAGCTAAAAGACTTTGACTTTGTGCCTCCCGTCGTGCGTTGG
CTCAATGAACAGAGATACTACGGTGGTGGCTATGGCTCTACCCAGGCCACCTTCATGGTGTTCGAAGCCTTGGCT
CAATACCAAAAAGGACGCCCCCTGACCACCAGGAAGTGAACCTTGATGTGTCCCTCCAAGTGGCCAGCCGAGCTCC
AAGATCACCCACCGTATCCACTGGGAATCTGCCAGCCTCCTGCGATCAGAAGAGACCAAGGAAAATGAGGGTTTC
ACAGTCACAGCTGAAGGAAAAGGCCAAGGCACCTTGTGCGTGGTGACAATGTACCATGCTAAGGCCAAAAGATCAA
CTCACCTGTAATAAATTGACCTCAAGGTCACCATAAAACCAGCACCGGAAACAGAAAAGAGGCCTCAGGATGCC
AAGAACACTATGATCCTTGAGATCTGTACCAGGTACCGGGGAGACCAGGATGCCACTATGTCTATATTGGACATA
TCCATGATGACTGGCTTTGCTCCAGACACAGATGACCTGAAGCAGCTGGCCAATGGTGTGACAGATACATCTCC
AAGTATGAGCTGGACAAAGCCTTCTCCGATAGGAACACCCCTCATCATCTACCTGGACAAGGTCTCACACTCTGAG
GATGACTGTCTAGCTTTCAAAGTTCACCAATACTTTAATGTAGAGCTTATCCAGCCTGGAGCAGTCAAGGTCTAC
GCCTATTACAACCTGGAGGAAAGCTGTACCCGTTCTACCATCCGAAAAGGAGGATGGAAAGCTGAACAAGCTC
TGCCGTGATGAACGTGTGCCGCTGTGCTGAGGAGAATTGCTTCATACAAAAGTCGGATGACAAGGTCAACCCTGGAA
GAACGGCTGGACAAGGCCTGTGAGCCAGGAGTGGACTATGTGTACAAGACCCGACTGGTCAAGGTTCAAGCTGTCC
AATGACTTTGACGAGTACATCATGGCCATTGAGCAGACCATCAAGTCAGGCTCGGATGAGGTGCAGGTTGGACAG
CAGCGCACGTTTCATCAGCCCCATCAAGTGCAGAGAAGCCCTGAAGCTGGAGGAGAAGAACTACCTCATGTGG
GGTCTCTCCTCCGATTTCTGGGGAGAGAAGCCCAACCTCAGCTACATCATCGGGAAGGACACTGGGTGGAGCAC
TGGCCCCGAGGAGGACGAATGCCAAGACGAAGAGAACCAGAAACAATGCCAGGACCTCGGCGCCTTCACCGAGAGC
ATGGTTGTCTTTGGGTGCCCCAACTGACCACACCCCCATTCC

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FIGURE 5206

GGCCGCGGTGGTGGCTGCGGCGGCGGCGGCGGGAGCAGCATGGATTGGGGCACTGAGCTGTGGGATCAGTTCGAG
GTGCTCGAGCGCCACACGCAGTGGGGGCTGGACCTGTTGGACAGATATGTAAAGTTCGTGAAAGAACGCACCGAA
GTGGAACAGGCTTACGCCAAACAACCTGCGGAGCCTGGTGAAAAAATATCTGCCCAAGAGACCTGCCAAGGATGAT
CCTGAGTCCAAATTCAGCCAGCAACAGTCCTTCGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGG
GAGCTGGTGGCTGAGAACCTCAGTGTCCGTGTATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGAG
AGGAAGATGCACTTCCAAGAAGGGCGGCGGGCCAGCAGCAGCTGGAAATGGCTTTAAACAGCTGGAGAATAGT
AAGCGTAAATTTGAGCGGGACTGCCGGGAGGCAGAGAAGGCAGCCCAGACTGCTGAACGGCTAGACCAGGATATC
AACGCCACCAAGGCTGATGTGGAGAAGGCCAAGCAGCAAGCCCACCTTCGGAGTCACATGGCCGAAGAAAGCAAA
AACGAATATGCGGCTCAACTGCAGCGCTTCAACCGAGACCAAGCCCACCTTCTATTTTTTACAGATGCCCCAGATA
TTCGATAAGCTCCAAGACATGGATGAACGCAGGGCCACCCGCCTGGGTGCCGGGTATGGGCTCCTGTCGGAGGCC
GAGCTGGAGGTGGTGCCCATATAGCCAAGTGCTTGGAGGGCATGAAGGTGGCTGCAAATGCTGTGGATCCCAAG
AACGACTCCCACGTCTTATAGAGCTGCACAAGTCAGGTTTTGCCCGCCCGGGCGACGTGGAATTCGAGGACTTC
AGCCAGCCCATGAACCGTGCACCCTCCGACAGCAGTCTGGGCACCCCTCGGATGGACGGCCTGAACTCCGAGGC
CCGGGTGCGAGCCGCACCAAGCGCTGGCCTTTTGGCAAGAAGAACAAGACAGTGGTGACCGAGGATTTTAGCCAC
TTGCCCCCAGAGCAGCAGCGAAAACGGCTTCAACAGCAGTTGGAAGAACGCAGTCGTGAACCTCAGAAGGAGGTT
GACCAGAGGGAAGCCCTAAAGAAAATGAAGGATGTCTATGAGAAGACACCTCAGATGGGGGACCCCGCCAGCTTG
GAGCCCCAGATCGCTGAAACCTGAGCAACATTGAACGGCTGAAATTGGAAGTGCAGAAGTATGAGGCGTGGCTG
GCAGAAGCTGAAAGTCGAGTCCTTAGCAACCGGGGAGACAGCCTGAGCCGGCACGCCCCGGCCTCCCGACCCCCC
GCTAGCGCCCCGCCAGACAGCAGCAGCAACAGCGCATCACAGGACACCAAGGAGAGCTCTGAAGAGCCTCCCTCA
GAAGAGAGCCAGGACACCCCCATTTACACGGAGTTTGATGAGGATTTGAGGAGGAACCCACATCCCCCATAGGT
CACTGTGTGGCCATCTACCACCTTTGAAGGTCCAGCGAGGGCACTATCTCTATGGCCGAGGGTGAAGACCTCAGT
CTTATGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTGAGGCGGAAAGAGGGAGGCGAGGGCTACGTGCCACC
TCCTACCTCCGAGTCACGCTCAATTGAACCCCTGCCAGAGACGGGAAGAGGGGGCTGTGCGCTGCTGCTTCTGGG
CCACGGGGAGCCCCAGGACCTATGCACCTTTATTTCTGACCCCGTGGCTTCGGCTGAGACCTGTGTAACCTGCTGC
CCCCCTCCACCCCAACCCAGTCCTACCTGTCACACCGGACGGACCCGCTGTGCCTTCTACCATCGTTCCACCATT
GATGTACATACTCATGTTTTACATCTTTTCTTCTGCGCTCGGCTCCGGCCATTTTGTTTTATACAAAATGGGT
TTTTTTTTTTCTTTAATATATTTCAAGAGATTTTTTTTTTTTTTTTTTTTT

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FIGURE 5207

MDWGTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPAKDDPESKFSQQQSFVQ
ILQEVNDFAGQRELVAENLSVRVCLELTKYSQEMKQERKMHFQEGRRQQQLENGFKQLENSKRKFERDCREAEK
AAQTAERLDQDINATKADVEKAKQQAHLRSHMAEESKNEYAAQLQRFNRDQAHFYFSQMPQIFDKLQDMDERRAT
RLGAGYGLLSEAELEVVP IIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPGDVEFEDFSQPMNRAPSDSSL
GTPSDGRPELRGPGRSRTKRWPFGKKNKT VVTEDFSHLPPEQQRKRLQQQLEERSRELQKEVDQREALKKMKDVY
EKTPQMGPASLEPQIAETLSNIERLKLEVQKYEAWLAEAESRVLSNRGDSLSRHARPPDPPASAPPDSSSNSAS
QDTKESSEPPSEESQDTP IYTEFDEDFEEPTSPIGHCVAIYHFEGSSEGTISMAEGEDLSLMEEDKGDGWTRV
RRKEGEGGYVPTSYLRVTLN

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FIGURE 5208

CGGGGGTGACAGCAGCCCGGAGCGCGGAGCCTCAGCTTCCGCCTGGACCCAGCCTCGTGGGAGCCCCGCGGGTC
CTGCCCAGATGTGGAAGACTGAGGCCTGTTGAAAGTGCAGAGCTCAGCCCTGGCACCCCTCTGTTCCCAAGAGCTC
CATGCAGGTGCCACAGGATGGAGAAGACCTTGCTGGCCAACCCTGGTACCACGGCCTCCTGTCCCGCCAGAAGGC
TGAAGCTCTTCTTCAGCAAGATGGCGACTTCTGTTTCGCGCCTCTGGGTCCCGTGGGGGCAACCCCGTGATCTC
CTGCCGCTGGCGGGGCTCAGCCCTCCATTTTGGGTGTTCCGTGTGGCCCTGCGTCCCCGGCCAGGCCGACCCAC
AGCCCTCTTTCAACTGGAGGATGAGCAATTCCCCAGCATACCGGCTCTGGTTCACAGTTATATGACAGGCAGGCG
CCCCTGTCCCAGGCCACAGGGGCTGTGGTCTCCAGGCCTGTGACTTGGCAGGGGCTCTGCGACGCAGCTTTAG
CGAGGACACCCTGATGGATGGCCCAGCTCGGATAGAGCCTCTCAGGGCAAGGAAGTGGAGCAACAGTCAGCCTGC
AGATTGTCACATATGGGGCGGTCAAGAGAAGACCCGCTGGGATGGAAGCCTCCACCATGCCATATCTGCCTT
GCCCCGAACGAGCAGTGACCCGGTGTGCTGAAGGCCCTGCTCCCTGGGAAGTGTGCGGACAGTCTCAGGGC
CTCCGATGGGCAGCTTCAAGCCAAGGCACCAACGAAGCCCCCGGACACCTCCTTCGAAGTGCCTGATGCCTC
TGAACGTCCCCGACGTACTGCGAGCTGGTGCCCCGAGTGCCAGTGTCCAGGGAACATCCCCGAGCCAAAGCTG
CCCAGAGCCAGAGGCCCATGGTGGGAGGCCGAGGAGGATGAGGAGGAAGAGAATAGATGTTTTACAAGACCACA
GGCTGAGATCTCTTTCTGCCCCATGATGCCCTCCTGCTGCTGGGCCCCAGAATCGGCCCCGGAACCCCA
AGTCTGCTACACCTCCGTGGCCTGTTCTGGAGCACCATCCTGGGAGCACCGCCCTTCACCTGCTATTGGTAGA
CTGCCAGGCCACAGGCCTCCTGGGAGTGACCAGAGATCAGCGGGCAACATGGGAGTCTCATCTGGCCTGGAGCT
GCTACTCTTCCCCATGGACACCACTTGAGGTTGGAAGTGTGAGAGGCATCAGACACTGGCGCTGGCCGGGGC
GCTGGCGGTGCTGGGCTGCTCGGGGCGCTGGAGGAGCGCGCAGCCGCACTGAGGGGACTGGTAGAGCTGGCGCT
GGCGCTGCGGCCAGGGGCGGCGGGGGACCTGCCGGGCTGGCTGCAGTCATGGGCGCCCTGCTCATGCCCCAGGT
GTCCCGGTTGGAGCACACGTGGCGCCAGCTCCGAAGGAGCCACACGGAGGCTGCGCTGGCCTTTGAGCAGGAGCT
GAAGCCGCTGATGCGGGCTCTGGATGAGGGCGCTGGACCCTGCGACCCCGGCGAGGTGGCGCTGCCGCACGTGGC
ACCCATGGTTCGCCTACTGGAGGGCGAGGAAGTCGCGGGGCGCTGGACGAGAGCTGTGAGCGGCTGTTGCGCAC
CCTGCACGGGGCGCGTCACATGGTCCGGGACGCACCCAAATTCCGCAAGGTGGCAGCCCAGCGCCTGCGAGGATT
CCGGCCTAACCCGGAGCTGAGGGAGGCCCTGACCACCGGCTTCGTGCGGAGGCTGCTCTGGGGTAGCCGGGGCGC
GGGAGCTCCGCGCGCTGAACGCTTTGAGAAATTCCAGCGCTCCTCGGCGTCTGTGCGAGCGCTGGAGCCTGA
CCGCT**AG**AGCGCAGACACCCTTCTTCACACCCGGGACCCCCAGGTTTTTGCGAACCCCAAGAGACCAAAGGA
GTCGTCCCAGGCTCCTCGCGCCTCAGGTGGAATCCTGCCCTGTGCCTCACAGAAGAGGTGGGGACCGCAGTCAGG
GTCACCTGGACCATGGTGAACATGTGACCTGCAGATCTGGCATCAGAGGCCAGAGTTCAAATGTGACTCCACCTC
TTAAAGCCGTGATTCTAGCAGTTGACTTCACCTCTGTGTCGGCCTTTAACAAAATCATAGCCATACAGCAGCT
CAGGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGAAGGAAGGCTTGAGGCCAGGAGTTCAAGACCAGCCAG
GGCAACATGGTGAGACCTCATCTCTACAAAACTGAAAAATAAAAACTTTTAAAAAATGTAAAAA

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FIGURE 5209

MQVPQDGEDLAGQPWYHGLLSRQKAEALLQQDGDFLVRASGSRGGNPVISCWRWGSALHFEVFRVALRPRPGRPT
ALFQLEDEQFPSIPALVHSYMTGRRPLSQATGAVVSRPVTWQGPLRRSFSEDTLMDGPARIEPLRARKWSNSQPA
DLAHMGRSREDPAGMEASTMPI SALPRTSSDPVLLKAPAPLGTVADSLRASDGQLQAKAPT KPPRTPSFELPDAS
ERPPTYCELVPRVPSVQGTSPSQSCPEPEAPWWEAEDEEEENRCFTRPQAEISFCPHDAPSCLLGPQNRPLEPQ
VLHTLRGLFLEHHPGSTALHLLLVD CQATGLLGVTRDQRGNGMVSSGLELLTLPHGHHLRLLELLERHQTALAGA
LAVLGCSGPLEERAAALRGLVELALALRPGAAGDLPGLAAVMGALLMPQVSRLEHTWRQLRRSHTEAALAFEQEL
KPLMRALDEGAGPCDPGEVALPHVAPMVRLLLEGEEVAGPLDESCERLLRTLHGARMVRDAPKFRKVAAQRLRGF
RPNPELREALTTGFVRLLWGSRGAGAPRAERFEKFQRVLGVLSQLRLEPDR

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FIGURE 5210

AGGGAAGACACGCGTGACCCGGAAGGTCTTCCCGCCACACTCCAGAGCGGATGTGAGGGGGCGCCGATGGCGGAGG
GAACGGCGGAGGCTCCTCTAGAGAATGGTGGTGGTGGCGACTCGGGAGCCGGAGCTTTGGAACGAGGAGTGGCGC
CCATTAAGCGTCAATACCTCACCACCAAGGAGCAGTTTCACCAATTCCTGGAAGCCAAAGGGCAGGAGAAAGACTT
GCCGGGAAACCGAGCTGGACATCCGTGGCAAACCTTTACCTGGCCCCCTCACCACGTGTGGGAACCTGCCCTTCC
GACGGATCTGCAAGCGCTTCGGGGCGGATGTGACATGTGGAGAGATGGCCGTCTGCACCAACCTGCTGCAGGGCC
AGATGTCCGAGTGGGCCCTACTCAAACGCCACCAAGTGTGAGGACATCTTTGGCGTCCAGCTGGAGGGCGCCTTCC
CCGACACCATGACCAAGTGTGCCGAGCTGCTGAGCCGCACCGTGGAGGTGGACTTTGTGGACATCAACGTCCGGCT
GCCCCATCGACCTCGTGTACAAGAAGGGTGGGGGCTGTGCCCTCATGAATCGCTCCACCAAGTTCCAGCAGATCG
TCCGTGGCATGAACCAGGTGCTGGATGTGCCGCTGACTGTGAAGATCCGCACAGGCGTCCAGGAGCGTGTGAACC
TGGCGCACCGCCTGCTGCCCCGAGCTGCCGGGACTGGGGCGTGGCACTCGTCACGCTCCACGGCCGCTCTCGGGAGC
AGCGCTACACCAAGCTAGCCGACTGGCAGTACATCGAGGAGTGCCTGCAGGCCGCCAGCCCCATGCCCTGTTTCG
GAAATGGGGACATCTTGTCAATTTGAGGATGCCAACCGCGCCATGCAGACTGGTGTACCCGGGATCATGATTGCCC
GTGGCGCCCTGCTCAAGCCGTGGCTCTTCACGGAGATCAAGGAGCAGCGGCACTGGGACATCTCGTCGTCCGAGC
GCCTGGACATCCTGCGGGACTTCACCAACTACGGCCTGGAGCACTGGGGCTCGGACACGCAGGGCGTGGAGAAGA
CCCGGCGCTTTCTGCTCGAGTGGCTGTCCTTCCTGTGCCGGTACGTGCCCGTGGGGCTGCTGGAGCGGCTCCAC
AGAGGATCAACGAGCGGCCGCCCTACTACCTGGGCCGCGACTACCTGGAGACGCTGATGGCCAGCCAGAAGGCAG
CCGACTGGATCCGCATCAGCGAGATGCTCCTTGGGCCAGTGGCCCCAGCTTCGCCTTCTTGCCGAAGCACAAGG
CCAACGCGTACAAGTAGCCTCAGGCTTTCCAGGGGCACCTGGGGCGAGGAGAGTACAATAAATTTTATTCTTT
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FIGURE 5211

MAEGTAEAPLENGGGGDSGAGALERGVAPIKRQYLTTKEQFHQFLEAKGQEKTCRETEVGDPAGNELAEPEAKRI
RLEDGQTADGQTEEAEPGEQLQTQKRARGQNKGRPHVKPTNYDKNRLCPSLIQESAAKCFFGDRCRFLHDVGRI
LETKPADLGPRCVLFETFGRCPYGVTCRFAGAHLRPEGQNLVQEELAARGTQPPSIRNGLDKALQQQLRKREVR
ERAEQALRRFSQGPTPAAAVPEGTAAEGAPRQENCGAQQVPAGPGTSTPPSSPVRTCGPLTDEDVVRRLRPEC
LDIRGKLYLAPLTTCGNLRFRRICKRFGADVTCGEMAVCTNLLQGQMSWALLKRHCEDIFGVQLEGAFPDMT
KCAELLSRTVEVDFVDINVGCPIDLVIKGGGCGALMNRSTKFQQIVRGMNQVLDVPLTVKIRTVQERVNLHRL
LPELRDWGVALVTLHGRSREQRYTKLADWQYIEECVQAASPMPLFGNGDILSFEDANRAMQTGVTGIMIARGALL
KPWLFTEIKEQRHWDISSERLDILRDFTNYLEHWGSDTQGVKTRRFLLEWLSFLCRYVPVGLLERLPORINE
RPPYYLGRDYLETLMASQKAADWIRISEMLLGPVPPSFAFLPKHKNAYK

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FIGURE 5212

CGGGTTTTCCAATCTCTGTGTAGCTAGCAGTTCTCTTCGTGTTAGTGTGGCAGCCGTGCCAGTTCACATTGTG
ATTGCTTTATTTCCCTGGTAATTAACCTTGTGCCATTCTATTCTGTAAATCCGTAGAAAATGAGAAAATACT
CGACATTTTGGGGGAACTTGTAAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAGCCATTGACACA
GGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGGCGAGGAAGAGGACCTATTTGACAGCGCCCATCCGGAAGA
GGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTGTTAGCGGTAGT
GAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTAGAGCCGGCAGT
TGAGCAGAGTAGTGC GGCCCTCCGAGCTCGCGGAGGCGCTCTAGCGAGGAGCTCGCAGAAGCACCCACGGAAGCCCC
AAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAATGAAGTCCCTCCGGC
TCCTAAAGAGTCCCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGGTTTGT TTTTCTCAGTTTTAGACCAGACG
CTATCTCCTTTTTCATTTGGTCATGTAATGACACACATAAGCTGTTTTTTCTGCAATTGGCCAGCCAGACTGACGA
AATTGTAGTTTTGCTTCTAAAGAATGTTTCGTTTCTCTTTGTGTGTTTTTAATGGGTGATTCAATTCCTTTTCTT
TTTCTCAACCTACCATGGTTGTGTTCTTAAATTCTTCCTAATTACCTTTAGCCCAGCAGAAATTAATTAACCTCTG
TGGGTCTGAAATCTTATGGTTAGGTGAGATTTTCAATACAAGTTTGTGCGGGGTATCATTTTTTTCAGAACTAAATT
TCGGGTAGGTATGCAACCTCAGCACGAATTTTATGGTTTTGAGTTTTGTTTCTCCATGCTGCTTCCTTGTGGAGT
GACATTGTCTTTTGTCTCTAGTTCTCCCGAAGATGACTCGGATACAAAAAGGCTTTCCAAAGAGGAAAAGGGTCG
CAGCAGTTGTGGTAGAAATTTCTGGGTTAGTGGACTCTCTTCTACAACCAGAGCTACAGATTTGAAGAACTTTTT
CAGCAAATATGGGAAGGTGGTGGGCGCCAAGGTTGTGACAAATGCCCGGAGTCCTGGAGCTCGCTGTTACGGTTT
TGTCACGATGTCCACAGCAGAAGAGGCCACAAAATGCATTAACCACCTGCACAAGACGGAGCTCCACGGAAGAT
GATCTCCGTGGAGAAAGCCAAAAATGAACCTGTGGGAAAGAAAACCTCTGACAAAAGAGACAGTGACGGGAAAAA
GGAGAAGTCGAGCAACAGTGACAGATCTACAAACCTTAAGAGGGATGATAAATGTGACAGAAAAGATGATGCTAA
GAAGGGTGACGACGGAAGTGGAGAAAAGAGTAAGGACCAAGATGATCAGAAACCTGGCCCCCTCAGAGCGATCTCG
AGCCACAAAGTCAGGAAGTCGAGGGACCGAACGGACTGTAGTAATGGATAAATCCAAAGGGGTGCTGTGATTAG
TGTA AAAACGTCCGGGTCCAAAGAGAGAGCTTCCAAAAGCCAGGATCGCAAATCAGCCAGCAGAGAGAAAGCGGTC
CGTCGTGTCCTTTGATAAGGTCAAGGAGCCTCGGAAGTCAAGAGACTCAGAGTCCCATAG

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FIGURE 5213

CGAACTCCGCCCCCTCTTCTCCGCGTAGGCCAGCTCCCTGAAGCGGCTGTTTCGAGCCACGCGCCCATCGGGTA
CCGAGGCACGCGCCGGGCGTCACGTGCGTTTCGCGGCGAGCGGAAATGACGCGAGTTGTGTGAGCCGCCAGTATG
GCCGGGCTATGGCGGCGAGCACTGGCTACGTGCGACTGTGGGGAGCGGCGCGGTGCTGGGTGCTGCGGCGGCCGA
TGCTGGCCGCCCGCGGGGGGCGGGTTCCTACTGCAGCAGGAGCGTGGTTGCTCCGAGGCCAGCGACCTGCGACG
CCTCTCCTCCTTGGGCACTGTGGGGCCGAGGCCCGGCAATTGGGGGCCAATGGCGGGGGTTTTGGGAAGCGAGCA
GCCGCGGCGGAGGCGCATTCTCGGGGGGCGAGGACGCTCCGAGGGCGGCGCGGAGGAAGGAGCCGGCGGCGCGG
GGGGCAGCGCGGGCGCCGGGGGAAGGCCCGGTCTATAACGGCGCTCACGCCCATGACGATCCCGATGTGTTTCCGC
ACCTGCCGCTCATCGCCATCACCCGCAACCCGGTGTTCGCGCGCTTTATCAAGATTATCGAGGTTAAAAATAAGA
AGTTGGTTGAGCTGCTGAGAAGGAAAGTTTCGTCTCGCCAGCCTTATGTGCGCGTCTTTCTAAAGAGAGATGACA
GCAATGAGTCGGATGTGGTCGAGAGCCTGGATGAAATCTACCACACGGGGAGCTTTGCCAGATCCATGAGATGC
AGGACCTTGGGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTCCATATCAGCAGACAGCTGGAGGTGG
AGCCCGAGGAGCCGGAGGCGGAGAACAAGCACAAAGCCCCGAGGAAGTCAAAGCGGGGCAAGAAGGAGGCGGAGG
ACGAGCTGAGCGCCAGGCACCCGGCGGAGCTGGCGATGGAGCCCACCCCTGAGCTCCCGGTGAGGTGCTCATGG
TGGAGGTAGAGAACGTTGTCCACGAGGACTTCCAGGTACGAGGAGGTTGAAAGCCCTGACTGCAGAGATCGTGA
AGACCATCCGGGACATCATTGCCTTGAACCTCTCTACAGGGAGTCAGTGTGTCAGATGATGCAGGCTGGCCAGC
GGGTGGTGGACAACCCCATCTACCTGAGCGACATGGGCGCCGCGCTCACCGGGGCGGAGTCCCATGAGCTGCAGG
ACGTCTGGAAGAGACCAATGTGGAGGAGAAGATCAAGCAGACCCACCGTAAGTACCTGCTGCAGGAGCAGCTAA
AGATCATCAAGAAGGAGCTGGGCCTGGAGAAGGACGACAAGGATGCCATCGAGGAGAAGTTCCGGGAGCGCCTGA
AGGAGCTCGTGGTCCCCAAGCACGTATGGATGTTGTGGACGAGGAGCTGAGCAAGCTGGGCCTGCTGGACAACC
ACTCCTCGGAGTTCAATGTCACCCGCAACTACCTAGACTGGCTCACGTCCATCCCTTGGGGCAAGTACAGCAACG
AGAACCTGGACCTGGCGCGGGCACAGGCAGTGTGGAGGAAGACCACTACGGCATGGAGGACGTCAAGAAACGCA
TCCTGGAGTTTATTGCCGTTAGCCAGCTCCGCGGCTCCACCCAGGGCAAGATCCTCTGCTTCTATGGCCCCCTG
GCGTGGGTAAGACCAGCATTGCTCGCTCCATCGCCCGCGCCCTGAACCGAGAGTACTTCCGCTTACGCGTCGGGG
GCATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACCTACGTGGGCGCCATGCCCGGGAAGATCATCCAGT
GTTTGAAGAAGACCAAGACGGAGAACCCCTGATCCTCATCGACGAGGTGGACAAGATCGGCCGAGGCTACCAGG
GGGACCCGTCGTCGGCACTGCTGGAGCTGCTGGACCCAGAGCAGAATGCCAACTTCTTGGAACCTACCTGGACG
TGCCCGTGGACTTGTCCAAGGTGCTGTTTCATCTGCACGGCCAACGTCACGGACACCATCCCCGAGCCGCTGCGAG
ACCGTATGGAGATGATCAACGTGTCGGGCTACGTGGCCAGGAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGC
CCCAGGCTCGCGCCCTGTGTGGCTTGGATGAGAGCAAGGCCAAGCTGTCATCGGACGTGCTGACGCTGCTCATCA
AGCAGTACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAGCAAGTGGAGAAGGTGTTACGGAAATCGGCCTACA
AGATTGTCAGCGGCGAGGCCGAGTCCGTGGAGGTGACGCCCAGAACTGCAGGACTTCGTGGGGAAGCCCGTGT
TCACCGTGGAGCGCATGTATGACGTGACACCGCCCGCGTGGTCATGGGGCTGGCCTGGACCGCAATGGGAGGCT
CCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGACAAGGATGCCAAGGGTGACAAGGATGGCAGCCTGG
AGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCCCGCATAGCCTACACCTTCGCCAGAGCCTTCCTCA
TGCAGCACGCCCCCGCCAATGACTACCTGGTGACCTCACACATCCACCTGCATGTGCCCGAGGGCGCCACCCCCA
AGGACGGCCCCAAGCGCAGGCTGCACCATCGTCACGGCCCTGCTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGA
ATCTGGCCATGACTGGCGAAGTCTCCCTCACGGGCAAGATCCTGCCTGTTGGTGGCATCAAGGAGAAGACCATTG
CGGCCAAGCGCGCAGGGGTGACGTGCATCGTCCCTGCCAGCCGAGAACAAGAAGGACTTCTACGACCTGGCAGCCT
TCATCACCGAGGGCCTGGAGGTGCACCTTCGTGGAACACTACCGGGAGATCTTCGACATCGCCTTCCCGACGAGC
AGGCAGAGGCGCTGGCCGTGGAACGGTGACGGCCACCCCGGACTGCAGGCGGCGGATGTCAGGCCCTGTCTGGG
CCAGAACTGAGCGCTGTGGGGAGCGCGCCCGGACCTGGCAGTGGAGCCACCGAGCGAGCAGCTCGGTCCAGTGAC
CCAGATCCCAGGGACCTCAGTCGGCTTAATCAGAGTGTGGCATAGAAGCTATTTAATGATTAAAGTCATTTGCAG
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FIGURE 5214

GGAGGGCTTAAGGAAGTAAAATGGCGGACCTGGCGAACGAAGAAAAGCCTGCCATTGCTCCGCCCGTCTTTGTGT
TTCAGAAGGATAAAGGACAAAAGTCCCCTGCAGAGCAAAAAAATTGTTCGGATTTCGGGAGAGGAGCCTCGGGGGG
AGGCTGAGGCCCCCACCATGGCACGGGTACCCCGAGTCAGCTGGCGAGCATGCCCTAGAACCTCCTGCCCTG
CTGGCGCCTCAGCCAGCACTCCTCCGCCTCCCGCTCCTGAAGCCAGCTTCCTCCTTTTCCGCGAGAAGTGGCAG
GGAGGTGAGTGGCGGCTCCAGTCCCTGAAGGCGGAGAAGATTCTGACAGAGAAGATGGAAATTACTGCCCTCCTG
TCAAGCGAGAAAGAATCCTCCTTTAACCAGTTCACCCCTCACAGTCAGAGGAAAGGAGCAGTGGCTTCCGGT
TGAAGCCACCAACGCTGATCCACGGCCAAGCCCCAGCGCAGGTCTGCCAAGCCAGAAGCCCAAGGAGCAGCAGC
GGAGCGTGCTTCGCCCGGCAGTGTTACAAGCTCCGCAGCCAAAGGCGCTGTCCAGACTGTCCCAAGCAGTGGCA
CCAACGGGGTCAGCCTCCCAGCAGACTGCACGGGGGCAGTGCCCGCAGCATCCCCTGACACTGCTGCATGGAGAA
GTCCTTCCGAAGCTGCCGATGAGGAGAAAGAGCCCCAGAAAAATGAGTCCAGCAATGCCTCTGAAGAGGAAGCCT
GTGAGAAAAAAGACCCCGCCACACAGCAAGCCTTTGTATTTGGGCAGAACTTGAGGGACAGAGTTAAGCTGATAA
ATGAGAGCGTGGACGAAGCCGACATGGAGAATGCTGGACACCCCGAGCGCAGACACGCCAACCGCAACGAATATT
TCCTCCAGTATATCAGTTCCAGTTTAGAGAACTCAACCAATAGTGCCGACGCCTCCAGCAACAAATTTGTATTTG
GCCAGAACATGAGCGAGCGAGTTTGTAGCCCCCAAAATTAACGAGGTGAGTTCAGATGCCAACAGGGAAAATG
CAGCTGCCGAGTCAGGGTCTGAGTCCCTCGTCCAGGAGGCCACCCCTGAGAAAGGGTCCCTGGCTGAGTCGGCAG
CCGCCTACACCAAGGCAACAGCGCGGAAGTGTGTTGTTGGAAAAAGTGGAAATCATCACCGGGGAGGAGCGGAGA
GCAATGTGTTACAGATGCAGTGAAGCTGTTTGTCTTTGACAAGACCTCACAGTCTGGGTGGAGAGAGGCGGG
GGCTGCTCAGACTCAATGACATGGCGTCCACCGATGACGGCACACTACAGTCCCGACTAGTGATGCGGACCCAGG
GGAGCCTGCGACTGATCCTCAACACCAAGCTGTGGGCCCAGATGCAGATCGACAAGGCCAGCGAGAAGAGCATT
GCATCACAGCCATGGACACCGAGGACCAGGGCGTGAAGGTCTTCTGATCTCGGCCAGCTCCAAGGACACAGGTC
AGTTGTATGCAGCCCTGCACCACCGCATCCTGGCCCTGCGCAGCCGCGTGGAGCAGGAGCAGGAGGCCAAGATGC
CCGCGCCTGAGCCTGGGGCAGCCCCATCCAACGAGGAGGACGACAGCGACGATGACGATGTCTGGCTCCTTCAG
GGGCCACCGCAGCTGGTGTGGTGACGAAGGGGACGGGCAGACGACCGGGGAGCACATAGCGGCCGGGAGCCCGGC
TGCACACCAGGCTGCTGCTTTGTCCGTCTATCCACCCGCCACCCGCCCCACCCACCCGCGCAGCGTCCAGGTGC
GGGGCCGGGAACCACACACCCCACTGGGCCGGCCACAGTCTGGACCCGCACGTCTGTTCAAAAGCAGACTCGGG
AACTGCCTGAATGTGGTTTGGGACACGAGACCTCATCATATTGATGAGCGAAACAAACAAGAACATTTCTCCCTC
CCCTCCTTTGAATTGAAATGGCACATTAAGACTGTACAGGCTTCTCACTGGGACTGGAGACCTCGTTCCCTTCAC
CCCGCTGTGCGCAGCCTCTGGGTCCAGCCAGAGCCCCTGGCTTCTCCGCCACCCACACCCCTTCCACCCCTGCTG
TGGGGCCCTGCCTTTGTGGGGAGCAGCCAGCCCTCTGCCCCCTGCCAGGGCTCCCCAACTATAGGCCTGGGACCC
CCGCCAGCTTGGGGGGCTGCTCGTACGAGTGTAGACACTGGGCCCCATTGGACGTGCTGTAACTACTATCTTCA
TTTCCCACTTCCCCTCTCTGATTGGGGGTGTATATTTTACATCTTTTTTCTTTTTATTTTGAAGGCTTTGTTT
TGTTTCTTAGGTTAAGATGCTCTCGAGCGTTGAGCAGGCACAGCTCTGTGAGGTCCCTGTCCCCACCTGTGG
TCTGGCCTCTGAGGTTGGGGGACTACTTGTTCACCCAGGTTCTCCAGGCCAAGTCATGGGGTGATGAGG
AGTTGGGGCCCTGCTGTCCTAGGCCTGGAGAGTGCCTGTCTGGGAAAAGGTCACTGGACCTGGAAGGGTCCCCA
GGTCCCCCTGACTCCCGTCTCCATCTGTACGTGTTTACCATCATCAGGCACCAGGCGCAAACCTGCTTCCCGCT
GTTGGCCATCCCTTCCCCAGCCACAGGTGTCCCTGCCCCCAGGACAGTCCAGGGCCAGGGGCTTCTGTGAGAGGC
AGAGGGGGACCCCTACCAAATCTTGGTGAAGAGCCCAGGGGCTGGTCCCAGAACAGGCAGTCTCACAAGCACGC
AGCACACTGGAGTGGACGCCTGTGCCACCCGAGCCTGGAGATGGCCAAGAGCCAGCTTGCACCACCCACCTGG
GAGGCCGAGGAGGAGGTCCCTGGGCACAGGGCCTCTTTGGGACTTCAGAGGAAATCTCCAGTCCCACTCTCGG
AGGGTTAAGAGAAGGCCTCCTGCAGCTGTGCCGTCCACCTCTAGGTGCGCAGAGCCCTGCCCCAGCCCCAG
CAAGCCTGAGCCCCGGGAAGAACCAGAGGCCCTCCGAGAGACCCAGTCACACGTCTCTGCTTTAAGCCTTAGCCA
GCTAGTGACGAGTACAACGAGATAACGCCCATGTGTTTTGGAACATTTATGTAAGATTGTATATGAAATGTATT
TGGGAACATACATTAACTTTTAACTAAAAA

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FIGURE 5215

MADLANEEKPAIAPPVVFQKDKGQKSPAEQKNLSDSGEPRGEAEAPHHGTGHPESAGEHALEPPAPAGASAST
PPPPAPEAQLPPFPRELAGRSAGGSSPEGGEDSDREDGNYCPPVKRERTSSLTQFPPSQSEERSSSGFRCLKPPTLI
HGQAPSAGLPSQKPKEQQRSVLRPAVLQAPQPKALSQTVPSSTNGVSLPADCTGAVPAASPDAAWRSPSEAAD
EEKEPQKNESNASEEEACEKKDPATQQAFFVFGQNLDRVKLINESVDEADMENAGHPADTPTATNYFLQYISS
SLENSTNSADASSNKFFVFGQNMSEVLSPPKLNEVSSDANRENAAAESGSESSSQEATPEKGSIAESAAAYTKAT
ARKCLLEKVEVITGEEAESNVLMQCKLFVFDKTSQSWVERGRGLLRNLNDMASTDDGTLQSLVMRTQGSRLRLIL
NTKLWQMIDKASEKSIRITAMDTEDQGVKFLISASSKDTGQLYAALHHRIALRSRVEQEQAEMPAPEPGA
APSNEEDDSDDDDVLAPSGATAAGAGDEGDGQTTGST

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FIGURE 5216

TGCGCGTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGCGTGGCCGGCGCCGCTGTGGGGACAGCATGAAGCGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCCTGGCGCTGCTGCTGCTCGGCCTCGGAC
TAGGCCTGGAGGCCGCCGCGAGCCCGCTTTCCACCCGACCTCTGCCCAGGCCGCGAGGCCCCAGCTCAGGCTCGT
GCCCACCCACCAAGTTCCAGTGCCGCACCAAGTGGCTTATGCGTGCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCACCGCCCC
CTGGCCTCCCCTGCCCCTGCACCGGCGTCAGTGACTGCTCTGGGGGAAGTACAAGAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCCTCTGTGCGGAATGCCACATCCTCCTCTGCCGGAGACCAGTCTGGAAGCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCTCCTCCTTTTGTCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCACTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCCTTGAGGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAACTGAGGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCTGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 5217

MSGGWMAQVGAWRTGALGLALLLLGLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFQCRTSGLCVPLTWRC
RDLDGSDGSDDEECRIEPTQKGQCPPPPGLPCPCTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLTW
RCDGHPDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAVLSASLVLTATLLLLSWLRAQERLRPLGLLVAMKESLLLSEQKTSLP

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FIGURE 5218A

CCTCGCTCAAGGAGCACCCCCGGGGCACCCTCCTGTCCGATGGCAGCCCCGGCCCTGTCCAGGAATGTCGGTATGA
CGGTCTCTCAGAAAGGGGGTCCCCAGCCAACACCGAGCCCGGCTGGCCCTGGGACGCAACTCGGACCAATCACAG
GAGAGATGGATGAAGCCGATTCTGCGTTTTTAAAATTTAAGCAGACAGCTGATGACTCTCTGTCCCTTACATCTC
CAAACACCGAGTCCATTTTTGTAGAAGATCCCTACACCGCCTCGCTGAGGAGTGAGATTGAGTCAGACGGCCACG
AGTTTGAAGCTGAGTCCTGGAGCCTCGCCGTGGATGCAGCCTACGCCAAGAAGCAAAAGAGGGAGGTGGTGAAAA
GACAAGATGTCCTTTATGAGCTGATGCAGACAGAGGTGCACCACGTGCGGACGCTCAAGATCATGCTGAAGGTGT
ACTCCAGGGCCCTGCAGGAGGAGCTGCAGTTTCAGCAGCAAGGCCATTGGCCGCTCTTCCCATGCGCTGACGACC
TGCTGGAGACGCACAGCCACTTCTCGCTCGGCTCAAGGAGCGCCGCCAGGAGTCCCTGGAGGAGGGCAGTGACC
GGAATTATGTTCATCCAGAAAATCGGCGACCTCCTGGTTTCAGCAGTTTTTCAGGTGAAAATGGGGAGAGAATGAAAG
AAAAGTACGGTGTGTTTTGTAGTGGCCACAATGAAGCTGTTAGTCATTACAAGTTGCTGCTTCAGCAAAACAAGA
AATTTCAAAACTTGATCAAGAAAATTGGCAACTTCTCCATCGTGCGGCGGCTTGGCGTGCAGGAGTGCATTCTCC
TGTTTACACAACGCATAACCAAATACCCAGTGCTGGTGGAGCGCATCATCCAGAACACGGAAGCTGGCACTGAGG
ACTATGAAGACCTGACCCAGGCCTTGAACCTCATCAAGATATCATCTCACAAGTGGACGCCAAGGTGAGTGAGT
GTGAGAAGGGCCAGCGCCTCAGGGAGATCGCAGGGAAGATGGACCTGAAGTCTTCCAGCAAACTCAAGAACGGGC
TCACCTTCCGCAAGGAAGACATGCTTCAGCGGCAGCTCCACCTGGAGGGCATGCTATGCTGGAAGACCACATCAG
GGCGCTTGAAAGATATCCTGGCTATCCTGCTGACCGACGTACTTTTGCTGCTACAAGAAAAGATCAGAAATACG
TCTTTGCTTCTGTGGACTCAAAGCCACCCGTATCTCGTTACAAAAGCTCATCGTGAGGGAAGTGGCCAACGAGG
AGAAAGCGATGTTTTCTGATCAGCGCCTCCTTGCAAGGGCCGGAGATGTATGAAATCTACACGAGCTCCAAGAGG
ACAGGAACGCCTGGATGGCCACATCCAAAGGGCTGTGGAGAGCTGCCCTGACGAGGAGGAGGGGCCCTTCAGCC
TGCCCGAAGAGGAAAGGAAGGTGGTCGAGGGCCGCGCCACGAGACTCCGGGACTTTCAAGAGCGGTTGAGCATGA
AAGACCAGCTGATCGCACAGAGCCTCCTAGAGAAACAGCAGATCTACCTGGAGATGGCCGAGATGGGCGGCCTCG
AAGACCTGCCCCAGCCCCGAGGCCTATTCCGTGGAGGGGACCCATCCGAGACCCTGCAGGGGGAGCTAATTCTCA
AGTCGGCCATGAGCGAGATCGAGGGCATCCAGAGCCTGATCTGCAGGCAGCTGGGCAGCGCCAACGGCCAGGCGG
AAGACGGAGGCAGCTCCACAGGCCCCGCCCAGGAGGGCTGAGACCTTCGCGGGCTACGACTGCACAAAACAGCCCCA
CCAAGAATGGCAGTTTCAAGAAGAAAGTCAGCAGCACTGACCCAGGCCCCGAGACTGGCGAGGCCCCCAACA
GCCCCGACTTGAAGCTCAGTGACAGTGACATTCTGGGAGCTCTGAGGAATCGCCGAGGTGGTGGAGGCGCCAG
GCACGGAATCCGATCCCCGTCTGCCACCGTCTTGAGTGGAGCTTGCCAGCGGATCCAGACACTGTCCAGC
TGCTCCTGAACCTTCAGGCGGTAATCGCCCACAGGACAGCTATGTGGAGACGCAGCGGGCTGCCATCCAGGAGC
GGGAGAAGCAGTTCCGGCTGCAGTCGACGCGTGGGAACCTGCTGCTGGAGCAGGAGCGGCAACGCAACTTCGAGA
AGCAGCGGGAGGAGCGCGCGGCCCTGGAGAAGCTGCAGAGCCAGCTGCGGCACGAGCAGCAGCGCTGGGAGCGCG
AGCGCCAGTGGCAGCACCAGGAGCTGGAGCGTGCGGGCGCGCGGCTGCAGGAGCGCGAGGGCGAGGGCGGGCAGC
TACGCGAGCGGCTGGAGCAGGAGCGGGCCGAGCTGGAGCGCCAGCGCCAGGCCCTACCAGCACGACCTGGAGCGGC
TGCGCGAGGCCCAGCGTGCCGTGGAGCGCGAGCGGGAGCGCCTGGAGCTGCTGCGCCGCTCAAGAAGCAGAACA
CCGCGCCAGGCGGCTGCCGCCGACACACTGGCCGAGGCCAGCCCCAAGCCACCCTCCAGCTTCAACGGGG
AAGGGCTGGAGGGCCCTCGTGTGAGCATGCTGCCATCCGGCGTGGGGCCAGAGTACGAGAGCGCCCCGAGGTGG
CTCGCCGGGACAGCGCCCCACCGAGAACC GGCTGGCCAAGAGCGATGTGCCATCCAGCTGCTCAGCGCCACCA
ACCAGTTCCAGAGGCAGGCGGCCGTGCAGCAGCAGATCCCCACCAAGCTGGCGGCCTCCACCAAGGGTGGCAAGG
ACAAGGGCGGCAAGAGCAGGGGCTCTCAGCGCTGGGAGAGCTCAGCGTCTTCGACCTGAAGCAGCAGCTGCTGC
TCAACAAGCTCATGGGGAAAGATGAGAGCACCTCACGGAACCGCCGCTCGCTGAGCCCTATCCTGCCCCGAGAC
ACAGTCTCGCCCCCACCAGACCCTGGCTTCCCCGCCCCGAGCCACCGCCAGCTGACAGCCCCCTCCGAGGGCT
TCTCTCTCAAGGCCGGGGGCACAGCCCTCCTGCCCGGGCCCCAGCTCCCTCGCCACTGCCGGCCACACCACTCA
GCGCCAAGGAGGACGCCAGCAAGAAGACGTATCTTCTTAAAAGGGCCGTGACTCAAGGAAAGTTTTTAATG
GAAAGTTGAGCCAGAACTAAACCAGGGAGCTGTCTGAAATCATAGCACCCCATCCGGGTGGCGGGAGATCAACT
CCGAGCTGTTTTTCCGAGGCAGTGAGGAACGGTGCCGGCTCTGCACGGAGCTGAGGACAGGACAGACCTTGCTTT
GAGAAGGAGCTGCCGGCGGGGGCCACGCTCCACAGCCGCCGCGGACAGTGGAGCCAAGGGTTAGGGCACCAGGA
GGGGCCAGGTGGCGTGGCAGCATCTGTCCCCAGAATCAGGCAGAATCCACTTCCCAAACAGAGCCCCACGCAGG
TTCACCATGAACCTCAGGGTCAGGGAATGAGCCAGGCACGGGGGCATGGGCAGAGAGGGCCACGGGGCAGGGCCC
ACTGAGGGAACATCAGTGGCCCTCCAGTCAGGTTCTGTGGGTTTGGAAGCCCATCGTGAAAGGGGCTGACCTTTG

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FIGURE 5218B

CCCCTTTTACTTGGCATTGGTTTTGAAACCAGCTGTTTCCCAAACCTCTGCTTCCCAAGGGCAACCGTTGCTGTT
CACACGCTCAGCCTGTCTGGGGGAGCGGGCCTCTAGCTTCAGCCAGGGCGGGTACACACCCTGGGCACAGGGTCC
TCAGCCCCCGGGAAATGAGCTCCCAGGGCTGGCGTCCCACCTTCCAGGTGGGGGCTGGCACATCACAGACTGTGCG
AGAGCGCCATGTCCCAGGGCATGCAGAGGATGCACCTAGAGACGTTGCAGCAAGTGGACAAGTGGCCGCTGTGCG
GGCCCCCTCGCTTGTAGTGAGCTGTTGCAGCTTACGGTCCGTTCCCTGGAGGGGTGGAGGAAGGAGGTGTTGGGCA
GCATCAAAGGTGCTGGGACATCCCAGGGTGGTGAGATCCATCCACGATCCAGCTCCGGTGGAGAAAGGGCCCATG
TCAAGCCTTGTTCTGCACCCCAAGCATTGGTGGTAGGACTGGGTCTGGCTGATCGTCTTGTTCACAGTGGGGT
ACATGTGAGCCCCTGCCAGGGCCAAGTCCTTCTCCCGAACCAGGGTCTGGGAACTGCAGATCCCGGGGGGATT
CAGCCCTTCTCCCACTGTGCTGGCAGAGGCACTCCTGTGACGCTGAATACAGTGAACAGGGACATTCCCGCCACT
CGGGGACAGATGGGCACAAGGGAGGGGAAACTCCATCAGGAAGTGCTCCCTGGGCAGAGGCGCCCACTGGGTGC
TGTGGGCTCAGGAGGGGGCGGGGCAGGAGCTGGTGCCAACCGGGAACCAGAGCCCCACAGCCATACAGCCCATTG
GTGACAAGGTCTTGAGAACACAGTGGCCAGGTGTCCCAGGCTCCTGGCCCCCTCCGACGACCTCAACTCTGCCCA
GCCCCGTCCCTGGCCATCAGCGACGCTGTCCGCCCCCGTCAGATCCCATGTGTGCCATGTTTATCATCAGTGTT
TTGTATTTTTGTACTGAGTATCGGAGCACTTTACAGAAGCTGACTGTACATTCTGTTCTGTTGTGAAGAGAACA
TTCCCAGACCCTGGCACCCCTCCTGAGCCGGCGTGTGCCGGTCCAGCCCTCCGAGATGCCACAATTCCTTGGATGG
GGGAGAAGTTCAAGGAATTTCTGCTCGGCCACGCGGTGGGAACCCGCGTCCCCGCCATGTGGCAGAGGGGTCTC
AGTCGTGCTAGGCATCGGGCGGCAGCGCCGACAGCCCTTCCCTCGCCAGTGCCCTCGGCCACTCCTGGGTTGGA
GCCCCGATTTTATTTGTAAAGTTGACAGTCGAGCAAATGTTCCTATTTTCGTGGGATCTGCACACGTCTTTGTCAG
TTGTGGTCAATGATCTTAGTCACCTGCTAATTATTTTACAATGATTACAACATTTCTCTACTGCGGGATATTTCT
GACCCGCTTTAGAACTTAAGACCTGATTCTAGCAATAAACGTGTCCGAGATG

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FIGURE 5219

TCTCCTGTACCTGGGCATCCAGAAAAATGTTGGTGATGGCGCGACTCTCGCGGCCCGAGCGGCCGGACCTTGTCT
TCGAGGAAGAGGACCTCCCTATGAGGAGGAAATCATGCGGAACCAATTCTCTGTCAAATGCTGGCTTCGCTACA
TCGAGTTCAAACAGGGCGCCCCGAAGCCAGGCTCAATCAGCTATACGAGCGGGCACTCAAGCTGCTGCCCTGCA
GCTACAAACTCTGGTACCGATACCTGAAGGCGCGTCGGGCACAGGTGAAGCATCGCTGTGTGACCGACCCCTGCCCT
ATGAAGATGTCAACAACTGTCATGAGAGGGCCTTTGTGTTTCATGCACAAGATGCCTCGTCTGTGGCTAGATTACT
GCCAGTTCTCATGACCAGGGGCGCGTCACACACACCCGCGCACCTTCGACCGTGCCCTCCGGGCACTGCCCA
TCACGCAGCACTCTCGAATTTGGCCCTGTATCTGCGCTTCCTGCGCTCACACCCACTGCCTGAGACAGCTGTGC
GAGGCTATCGGCGCTTCTCAAGCTGAGTCCTGAGAGTGACAGAGGAGTACATTGAGTACCTCAAGTCAAGTGACC
GGCTGGATGAGGCCGCCCCAGCGCTGGCCACCGTGGTGAACGACGAGCGTTTCGTGTCTAAGGCCGGCAAGTCCA
ACTACCAGCTGTGGCAGGAGCTGTGCGACCTCATCTCCAGAATCCGGACAAGGTACAGTCCCTCAATGTGGACG
CCATCATCCGCGGGGGCCTCACCCGCTTCACCGACCAGCTGGGCAAGCTCTGGTGTCTCTCGCCGACTACTACA
TCCGCGAGCGGCCATTTGAGAAGGCTCGGGACGTGTACGAGGAGGCCATCCGGACAGTGATGACCGTGCGGGACT
TCACACAGGTGTTTTGACAGCTACGCCAGTTTCGAGGAGAGCATGATCGCTGCAAAGATGGAGACCGCCTCGGAGC
TGGGGCGCGAGGAGGAGGATGATGTGGACCTGGAGCTGCGCCTGGCCCGCTTCGAGCAGCTCATCAGCCGGCGGC
CCCTGCTCCTCAACAGCGTCTTGCTGCGCCAAAACCCACACCAGTGCACGAGTGGCACAAGCGTGTGCCCCTGC
ACCAGGGCCGCCCCCGGGAGATCATCAACACCTACACAGAGGCTGTGCAGACGGTGGACCCCTTCAAGGCCACAG
GCAAGCCCCACACTCTGTGGGTGGCGTTTGCCAAGTTTTATGAGGACAACGGACAGCTGGACGATGCCCGTGTCA
TCCTGGAGAAGGCCACCAAGGTGAACCTCAAGCAGGTGGATGACCTGGCAAGCGTGTGGTGTCAAGTGCAGAGC
TGGAGCTCCGACACGAGAACTACGATGAGGCCTTGCGGCTGCTGCGAAAGGCCACGGCGCTGCCTGCCCCCGGG
CCGAGTACTTTGATGGTTTCAAGAGCCCGTGCAGAACCGCGTGTACAAGTCACTGAAGGTCTGGTCCATGCTCGCCG
ACCTGGAGGAGAGCCTCGGCACCTTCCAGTCCACCAAGGCCGTGTACGACCGCATCCTGGACCTGCGTATCGCAA
CACCCCAGATCGTCATCAACTATGCCATGTTTCTGGAGGAGCACAACTTTCGAGGAGAGCTTCAAGGCGTACG
AGCGCGGCATCTCGCTGTTCAAGTGGCCCAACGTGTCCGACATCTGGAGCACCTACCTGACCAAATTCATTGCC
GCTATGGGGGCCGCAAGCTGGAGCGGGCACGGGACCTGTTTGAACAGGCTCTGGACGGCTGCCCCCAAATATG
CCAAGACCTTGTACCTGCTGTACGCACAGCTGGAGGAGGAGTGGGGCCTGGCCCGGCATGCCATGGCCGTGTACG
AGCGTGCCACCAGGGCCGTGGAGCCCGCCAGCAGTATGACATGTTCAACATCTACATCAAGCGGGCGGCCGAGA
TCTATGGGGTCACCCACACCCGCGGCATCTACCAGAAGGCCATTGAGGTGCTGTGCGACGAGCACGCGCGTGAGA
TGTGCTGCGGTTTGCAGACATGGAGTGCAAGCTCGGGGAGATTGACCGCGCCCGGGCCATCTACAGCTTCTGCT
CCCAGATCTGTGACCCCGGACGACCGGCGCGTTCCTGGCAGACGTGGAAGGACTTTGAGGTCCGGCATGGCAATG
AGGACACCATCAAGGAAATGCTGCGTATCCGGCGCAGCGTGCAGGCCACGTACAACACGCAGGTCAACTTCATGG
CCTCGCAGATGCTCAAGGTCTCGGGCAGTGCCACGGGACCGTGTCTGACCTGGCCCTTGGGCAGAGTGGCATGG
ACGACATGAAGCTGCTGGAACAGCGGGCAGAGCAGCTGGCGGCTGAGGCGGAGCGTGACCAGCCCTTGCGCGCCC
AGAGCAAGATCCTGTTCTGTGAGGAGTGACGCTCCCGGGAGGAGCTGGCAGAGCTGGCACAGCAGGTCAACCCCG
AGGAGATCCAGCTGGGCGAGGACGAGGACGAGGACGAGATGGACCTGGAGCCCAACGAGGTTCGGCTGGAGCAGC
AGAGCGTGCCAGCCGAGTGTGTTGGGAGCCTGAAGGAAGACTGACCCCGTCCCTCCCCCATCCCCCTCCCCACCC
CCTCCCCAATACAGCTACGTTTGTACATC

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FIGURE 5220

MVVMARLSRPERPDLVFEEEDLPYEEEIMRNQFSVKCWLRYIEFKQGAPKPRLNQLYERALKLLPCSYKLWYRYL
KARRAQVKHRCVTDPAYEDVNNCHERAFVFMHKMPRLWLDYCQFLMDQGRVTHTRRTFDRALRALPITQHSRIWP
LYLRF LRSHPLPETAVRGYRRFLKLSPE SAEEYIEY LKSSDR LDEAAQRLATVVNDERFVSKAGKS NYQLWHEL C
DLISQNPDKVQSLNVD AIIRGGLTRFTDQLGKLWCSLADYYIRSGHFEKARDVYEEAIRTVMTVRDFTQVFDSYA
QFEESMIAAKMETASELGREEEDDV DLELRLARFEQLISRRPLLNSVLLRQNP HHVHEWHKRVALHQGRPREII
NTYTEAVQTVDPFKATGKPH TLWVAF AKFYEDNGQLDDARVILEKATKVNFKQVDDLASVWCQCGELELRHENYD
EALRLLRKATALPARRAEYFDGSEPVQNRVYKSLKVWSMLADLEESLGT FQSTKAVYDRILDRLRIATPQIVINYA
MFLEEHKYFEESFKAYERGISL FKWP NVSDI WSTYLT KFIARYGGRKLERARDLFEQALDGCPPKYAKTLYLLYA
QLEEEWGLARHAMAVYERATRAVEPAQQYDMFNIYIKRAAEIYGVTHTRGIYQKAIEVLSDEHAREMCLRFADME
CKLGEIDRARAIYSFCSQICDPRTTGAFWQ TWKDFEVRHGNE DTI KEMLRIRRSVQATYNTQVNF MASQMLKVSG
SATGTVSD LAPGQSGMDDMKLLEQRAEQ LAEEAERDQPLRAQSKILFVRSDASREELAE LAQQVNPEEIQLGED E
DEDEMDLEPNEVRLEQQSVPAAVFGSLKED

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FIGURE 5221

ATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATT
GAGCATGAAATGAAGAACGGGATCCCTGCCAATCGAATCGTCCTGGGAGGCTTTTCAÇAGGGCGGGGCCCTGTCC
CTCTACACGGCCCTCACCTGCCCCACCCGCTGGCTGGTATCGTAGCATCGAGCTGCTGGCTGCCTCTGCACCGG
GCCTTCCCCCAGGCAGCTAAAGGCAGTGGCAAGGGCCTGACCATCTCCAGTGCCATGGGGAGCTGGACCCCATG
GTGCCCCGTACGGTTTGGGACCCTGACGGCTGTTGTACACCTGCCAGGGTCCAGTTCAAGACATACTCGGGTGTC
ATGCACAGCTGCTGTCTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGAGAAGTTGCTGCCTTCTGTCTAACT
AGTCGCTGGCCCCAGTGCGCCTCCAGGCCCCCAGCCTCTGGGAGAGGGGAGAGAGCTCCTCCTGCCAAGAACACÇ
AGCCCAGGCCCTGTTTCTAGCCCAGGGCGTGCCAGCGGGACCACCAGACACTTCCGGGCCTACCCCAGGAACCCC
GTCCCCGGCCATGGCCCGTCGGTCCCAGGCTGCGGGCACCAGGTGGGGCTCCCCGGCCAGCTCCGAGTGCCCCG
GCCACGGCCCCCGACAGAGGGCCCCCGGAAATCAGTGAGCAGCGCCTCGGAGCACAGTACCACCGAGCCAAGCCC
GGCTGCCAGGAGGCGGCCAGCGCCGCCCCGTTCTGGGCCCTCAGCCCGCGGAACACCCAGGGCTCCTGCGCATCC
CTCGCAGCCCCAAGCCGAAAGGACTGCAGGCTCTGCGACCCCTCAGGTACACCCCCAAGGAAGGACGCAGCCCC
AGCACTAGGACCGCTTTCTTCTCTCCTTTGGCCACACCCTCTCCATCGGGTACCAAGGCAAGACCCGTACCGCC
TCCCGACAATGCAGCCACTCCCCTGCCAGCCACGCTCCCTCCCTCTCCACCGCCACGCCCCCTCGCAAGTTCCA
CCCACACAGCTGATTATGTCCTTTCCAGAAGCAGGCGTCTCTTCCCTGGCCACAGCCGCTTTTGTGGCTTCAGTC
TCTCCATCAGTTTTCATCCCTCTGCAGAGACTCTCCTCTTCTGGCCACATTGCCTCTGCAGGCCTCTCCCTCTCC
TTTGACCACAGTCTCTCTGCAGGATCCTCCTCTAGTTTCTCCCTCTCTTTTGGCCTCACCGCCTCTGCAGGCTCC
GCCCCACCCACAGGCCCCACCTTCTATGACTACGCCCCCTATGCAGGCCCCGCCCTCTCTCCAGACCATTCCCCC
AATACAGGTCCCACATTCTCTGACCTCACCGTCTCTGCAGGCACCTCCCTCTCCTCTGGCTTTGTCTCTCTGCA
GGCCACAACCTTCTTTGGGCTCACCCACTCTGCAGGCCACACATTCTTTCTGACAATGTCCCCTAG

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FIGURE 5222

GTGCCCCCTCTGTCCCCCTGCTCTACCTCTCTGTCTTGTCTGGCTCTCCCGTCACCCCTCCCTGCCTCTGTCTCTCT
TCTGGCCTGAGCCTGGGCCCAGCCACCTCCTGACCGGAGGGAATCGGTGACGGAGCGGGGCCAAGGGAGGGGTCC
GGAGGGAGTCAGGGATGGAGGGCAGAGGGAGTGGATGTGGGGGTTTGAGGACGTGTGACAAGCTCCAGCAGGGGT
GGGGGCCGGGCTGAGGGTGGGGGTGCGAGGTGGTCACTCCCATCGTGCCCCCTGGCCGTCCCTCCACTCAGCCACA
CCTGGCCCCAGTCCACGTTGAGGTCCAGGACTGGGAAGGACCGGGTGAGTGACCGGGGACCCAGGCCAGGTGCCC
CCCGGAGCCTGCTGGGGTGGCCAGAGCAGGAGGGGGTGTGTTTCCCTTTTTGTGGGTGTTGCATGCAAATCAAGTG
GACAAGAAAAATAACAAAACAAAAACAAGAAAAAACAACAAAAACCCCGTAAATCACAAGAAAAATCCAA
CACCAAAGGCGCAGAAGCCGGCTGGCCGTGGTGGGGGCAGCGTAGGCGTAGCATCCCTCTCCTCTCACTTAGCCT
GTTGACTCTTGTTATTATCATGATATTACAAAACGCCGCATGTTTAAAAAGTCATAGATGTCATCTTCTCTCTG
CCCCAGGGAGGAAAGCCACCTTCTCTTGCCCCCTTGCCCCCTTTGTCAGGGGCCAGGGGTCTGCCGGGTGGGGT
GCCAACAGGCCTGGCCCTTTCCCTCCCCTGCATCCAGCCATGGGGGCCTCTGCGATTGCCGGAAGGTTGCATGGCT
GGTCCCAGGGCCAGCACAGGCCCGAGGCCGGGCTGCCTGGTTTTATTTTATTTAACTTTATTTTCTGTTTTATG
AGTGTGTGTCCGCCCCACCCCCACCCCCCTCAGTGTTAAGTGGGGAGCCCTGGGGGAGTCTCTCCTGCCTCCCAGC
CTCTCCCAAGACCTCCCCCTCGTCACCAGCCATCCCTCTGGACCAGGCAGAGGGCGGACCGGGTGGGCAGGGGC
CTGAGGGTGGCTCGGGCCAGCCCACCAGCCAATGGACCCCTCCTCAGGCCGCCAGTGTCGCCCTGCCCTTTTTTA
AAACAAAATGCCCTCGTTTGTAACCCCTTAGACGCTTGAGAATAAACCCCTTCCTTTTCTTCC

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FIGURE 5223

CGCCGCGAGAAGGTCACACGATTCTCCAACATGGCGGCGGGCGGCCCTGCGGAGTGGCTGGTGCCGCTGTCCACGG
AGATGCCTCGGCAGTGGAATCCAATTTCTTTCCAGCCACAACCTACCCCATGGGTGACCTATCAGATGCGCCGG
CCGGGCGGAGAGCTGCCACTGTCCAAATCATATTCTTCTGGAAACAGAAAAGGCTTTCTGTCCGGCTTGCTAGAT
AATGTCAAACAAGAATTAGCCAAAAACAAAGAAATGAAAGAAAGTATAAAAAAATTCGCTGACGAGGCCAGAAGG
CTAGAAGAATCAGACGTGCTCCAGGAGGCCAGAAGGAAATACAAAACCATCGAGTCAGAAACCGTGCGGACGAGC
GAGGTGCTACGGAAGAAGCTTGGGGAGCTGACGGGCACCGTGAAGGAGAGCCTTCACGAAGTCAGTAAAAGTGAT
CTCGGCCGGAAAAATCAAGGAGGGCGTGGAGGAAGCAGCCAAGACGGCCAAGCAGTCGGCCGAGTCGGTATCCAAA
GGCGGGGAGAAGCTGGGCAGGACAGCGGCCCTTCAGAGCCCTCTCCCAGGGGGTGGAGTCCGTGAAGAAGGAAATT
GACGACAGCGTCCTGGGACAGACCGGGCCCTACCGGAGGCCCCAGCGACTCCGGAAGAGAACGGAGTTTGCGGGA
GATAAGTTCAAGGAGGAGAAAGTGTTTGAGCCAAACGAGGAGGCCCTGGGGGTGCTGCTGCACAAGGACTCCAAG
TGGTACCAGCAGTGGAAGGACTTCAAGGAGAACAACGTGGTGTTTAACCGGTTCTTCGAGATGAAGATGAAGTAT
GACGAAAGCGACAACGCGTTTCATCCGGGCATCCCGGGCCCTTACGGACAAGGTCACCGACTTGCTGGGGGGCCTG
TTCTCCAAGACAGAGATGTGCGAGGTGCTCACGGAGATCCTCCGGGTGGACCCGGCCTTTGACAAGGACCGGTTT
CTGAAACAGTGCGAGAACGACATCATCCCCAATGTCTGGAGGCCATGATTTCTGGAGAGCTTGACATTCTCAA
GACTGGTGCTATGAAGCTACTTACAGCCAGCTGGCCACCCCATCCAGCAGGCCAAGGCACTGGGTCTCCAGTTC
CATTCTCGCATCCTAGACATTGACAACGTCGACCTGGCCATGGGCAAGATGATGGAGCAGGGGCCGGTGCTGATC
ATCACCTTCCAGGCACAGCTGGTGATGGTGGTCAGGAACCCCAAAGGCGAGGTGGTGGAGGGTGACCCGACAAG
GTGCTGCGGATGCTGTACGTGTGGGCGCTCTGCCGAGACCAGGACGAGCTCAACCCCTACGCGGCCTGGCGGCTC
CTGGACATCTCGGCCTCCAGCACCGAGCAGATTCTCTGAGTGTGGTGCCGGAGCCAGGTAGCCCCGGCCTGGGTC
ATCAGGCACAGAGGCACCGCAACACCACCTGCGGCAACT

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FIGURE 5224

MAAAALRSGWCRCPRRCLGSGIQFLSSHNLPHGSTYQMRRPGGELPLSKSYSSGNRKGFLSGLLDNVKQELAKNK
EMKESIKKFRDEARRLEESDVLQEARRKYKTIESETVRTSEVLRKKLGELTGTVKESLHEVSKSDLGRIKEGVE
EAAKTAKQSAESVSKGGEKLGRTAAFRALSQGVESVKKEIDDSVLGQTGPYRRPQRLRKRTEFAGDKFKEEKVFE
PNEEALGVVLHKDSKQYQQWKDFKENNVFNRRFFEMKMKYDESDNAFIRASRALTDKVTDLLGGGLFSKTEMSEVL
TEILRVDPAFDKDRFLKQCENDIIPNVLEAMISGELDILKDWCYEATYSQLAHPQQAKALGLQFHSRILDIDNV
DLAMGKMMEQGPVLIITFQAQLVMVVRNPKGEVVEGDPDKVLRMLYVWALCRDQDELNPYAAWRLLDISASSTEQ
IL

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FIGURE 5225

CGCCGGCTCCGCCCCGCTCGGGTGTGTTGTGGTGGGGCTGCGGAGTCGCCGATCCCGCCGGAAGCGCCAGGACAAT
GGGGACCCGAGACGACGAGTACGACTACCTATTCAAAGTGGTGCTCATCGGGGACTCAGGCGTGGGCAAGAGCAA
CCTGCTGTGCGCGCTTCACCCGCAACGAGTTCAACCTGGAGAGCAAGAGCACCATCGGCGTGGAGTTCGCCACCCG
CAGCATCCAGGTGGACGGCAAGACCATCAAGGCGCAGATCTGGGACACCGCTGGCCAGGAGCGCTACCGCGCCAT
CACCTCCGCGTACTACCGTGGTGCAGTGGGCGCCCTGCTGGTGTACGACATCGCCAAGCACCTGACCTATGAGAA
CGTGGAGCGCTGGCTGAAGGAGCTGCGGGACCACGCAGACAGCAACATCGTCATCATGCTGGTGGGCAACAAGAG
TGACCTGCGCCACCTGCGGGCTGTGCCCCTGACGAGGCGCGCCTTCGCAGAAAAGAACAACCTTGTCCTTCAT
CGAGACCTCAGCCTTGATTCCACTAACGTAGAGGAAGCATTCAAGAACATCCTCACAGAGATCTACCGCATCGT
GTCACAGAAACAGATCGCAGACCGCGCTGCCCACGACGAGTCCCCGGGGAACAACGTGGTGGACATCAGCGTGCC
GCCCCACCGACGGACAGAAAGCCCAACAAGCTGCAGTGTGCCAGAACCTGTGACCCCTGCGCCTCCACCCAGC
GTGCGTGCACGTCTCCGCCCCGCCCCGCGGATCCTCTGGCCCTCCCTGCTGTCCCTCTGTGGCCGGGCTC
GTTCCAGCCCTCCCAGTGAGCTCTGCACGGCCGGGCGGGGCCAGGAAGGACAGGAGCCAGTGCTACCCCGTCC
TGCCCCGGGGAAAAGCTAGAAGCCCCGGTTTGCTGCACCCATGAAACTCGGGTCCCCACAGCGTCTTGCGGGGTG
GGGAGGGCGGCAGGATGGACGGGGCTGGCCAGAGGCGAGGAGGACGGGCGGACGGCGCCGCTTCTCCCTTTTC
CTTGCCGACTCTAGGGAGCGATTGCCTCCCTCCCTCTGTGACCGGGTGGCCAGCCAGCCCGTCTGTCACCC
AGAACCCTGCTCTGGGCCAAAGCCCGAAGAACCAGGCAGCGGGGGCCGGGGCAGGCGGACCCCCGGGCTCTCAG
CGCCCACCCGCTCCTCCGCACACAGCAGCTCGCACAGGCCTCCACCTCTGCCTGTTGATTGATGCAGGGAGAAG
CCCGTCCCCCCTCTCCCTCTCCCTCCCTCTCCTGCACGCAACGCGCCCTCTCGGCCCTCCCTGTCCCCCTC
CTCTGTCTCGTCTCCCCATCTGGTCTGGAACCTGTTTGCAAGTGAAGCAATATCTCCGTGTTTGTATATACAAC
CGCTCTTGTAGCCTTTGGTTTTTGTAAATGTAGAGAAACACAGATTCTTTATACACTTTGTAAGATTTACGCCAA
ACCCAGCTCTCGATCTCTTCTTCTCCCTGTGGCCCCCTGCGCTGTTGCCCCGTCCCCGTACCCCGCCCGTTACT
GAAATGTATAATCTGACTTCTGTACAGAAACCTGC

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FIGURE 5226

CGCGCCGGGAACAGCCAGTCCGTGCCTAACGCGAGTGTATCTCGAGAGAGAAGCGATCAACAGCTGCCGGTCTGC
GCCTGCGCGCGCGGGGGCGTGGCCCGGGGCGAGTGGGGCCAAGGAGGCAGCCGGGAGCGGCGGGCGCAGGTGTT
ACTGGTTGCGTCGGGTACGTGGGCGCGCAGGCGCAGCGCGGTGCAGCCCGTTCGCTCACACAAAAGCCAGACGC
GGAGAAAATGGCGGCAGGGGTCTGAAGCGGCGGCGGAGGTGGCGGCGACGGAGATCAAAATGGAGGAAGAGAGCGG
CGCGCCCGCGTGCCGAGCGGCAACGGGGCTCCGGGCCCTAAGGGTGAAGGAGAACGACCTGCTCAGAATGAGAA
GAGGAAGGAGAAAAACATAAAAAGAGGAGGCAATCGCTTTGAGCCATATGCCAATCCAATAAAAGATACAGAGC
CTTCATTACAAACATACCTTTTTGATGTGAAATGGCAGTCACCTAAAGACCTGGTTAAAGAAAAAGTTGGTGAGGT
AACATACGTGGAGCTCTTAATGGACGCTGAAGGAAAGTCAAGGCTCTATAGTGTGTTGAATTCAAGATGGAAGA
GAGCATGAAAAAAGCTGCGGAAGTCTTAAACAAGCATAGTCTGAGCGGAAGACCACTGAAAGTCAAAGAAGATCC
TGATGGTGAACATGCCAGGAGAGCAATGCAAAAGGCTGGAAGACTTGGAAGCACAGTATTTGTAGCAAATCTGGA
TTATAAAGTTGGCTGGAAGAACTGAAGGAAGTATTTAGTATGGCTGGTGTGGTGGTCCGAGCAGACATTCTTGA
AGATAAAGATGGA AAAAGTCTGGAATAGGCACGTGTACTTTTGAACAGTCCATTGAAGCTGTGCAAGCTATATC
TATGTTCAATGGCCAGCTGCTATTTGATAGACCAATGCACGTCAAGATGGATGAGAGGGCCTTACCAAAGGAGA
TTTCTTCCCTCCTGAGCGTCCACAACAACCTCCCCATGGCCTTGGTGGTATTGGCATGGGGTTAGGACCAGGAGG
GCAACCCATTGATGCCAATCACCTGAATAAAGGCATCGGAATGGGAAACATAGGTCCCGCAGGAATGGGAATGGA
AGGCATAGGATTTGGAATAAATAAAATGGGAGGAATGGAGGGGCCCTTTGGTGGTGGTATGGA AAAACATGGGTGCG
ATTTGGATCTGGGATGAACATGGGCAGGATAAATGAAATCCTAAGTAATGCACTGAAGAGAGGAGAGATCATTGC
AAAGCAGGGAGGAGGTGGAGGTGGAGGAAGCGTCCCTGGGATCGAGAGGATGGGTCTGGCATTGACCGCCTCGG
GGGTGCCGGCATGGAGCGCATGGGCGCGGGCCTGGGCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCAT
GGGCCTGGTCATGGACCGCATGGGCTCCGTGGAGCGCATGGGCTCCGGCATTGAGCGCATGGGCCCCGCTGGGCCT
CGACCACATGGCCTCCAGCATTGAGCGCATGGGCCAGACCATGGAGCGCATTGGCTCTGGCGTGGAGCGCATGGG
TGCCGGCATGGGCTTCGGCCTTGAGCGCATGGCCGCTCCCATCGACCGTGTGGGCCAGACCATTGAGCGCATGGG
CTCTGGCGTGGAGCGCATGGGCCCTGCCATCGAGCGCATGGGCCCTGAGCATGGAGCGCATGGTGGCCGAGGTAT
GGGAGCTGGCCTGGAGCGCATGGGCCCCGTGATGGATCGCATGGCCACCGCCTGGAGCGCATGGGCGCCAACAA
TCTGGAGCGGATGGGCCTGGAGCGCATGGGCGCCAACAGCCTCGAGCGCATGGGCCTGGAGCGCATGGGTGCCAA
CAGCCTCGAGCGCATGGGCCCCGCCATGGGCCCCGGCCTGGGCGCTGGCATTGAGCGCATGGGCCTGGCCATGGG
TGGCGGTGGCGGTGCCAGCTTTGACCGTGCCATCGAGATGGAGCGTGGCAACTTCGGAGGAAGCTTCGCAGGTTC
CTTTGGTGGAGCTGGAGGCCATGCTCCTGGGGTGGCCAGGAAGGCCTGCCAGATATTTGTGAGAAATCTGCCATT
CGATTTACATGGAAGATGCTAAAGGACAAATTCAACGAGTGGGCCACGTGCTGTACGCCGACATCAAGATGGA
GAATGGGAAGTCCAAGGGGTGTGGTGTGGTTAAGTTCGAGTCGCCAGAGGTGGCCGAGAGAGCCTGCCGGATGAT
ACATCGATACGAGACCTCTGAATTTGTATTTTTCTTGTTAACCATTTAATTTGTTGGCTGGATGTATAAAGAT
GTTTAAAAAATTCAGTTGCTTTTTGGGGTAATTTGAATTACTTTTTAATGACTGGGGTTCCATTGACTGTTTG
CATTGAGATTGCAATGTGCGCAATTTTTTTGTAGTTGTGGCATCTGTGACATCGAATATGACTTTGATAATA
AATACCGGTTCCCTG

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FIGURE 5227A

AGTGAAGCGGAAGCCATTACTCTCTGGAGTCGATTGCCCGAGACACATGGGCCAAGGAGGGGTACGCGGCGAAT
TCTTTTCGGCCTGTTGGGGACCCCTCGTGTCCCCACGCCAGACTGGACCTCCCGTATGAACTTCTCTTCGCATCGG
CGGCGGCTTCCGTCACCTCCGCTCCCCGATCCTATTCCAGTCGTATGCCAGCTTGGAGAGTCACGTGAGAGCA
AGAGAGTAGCTTTCTGGTTGTCTGGTGCCCTGCTCAGGCAAACAGCTGCCATTCTCTGAGGATGGCAGCTCTG
TCCCCACATTTGCCACGTCCACCCAGGATTCCACCTGTCTCCAGGACTCAGAATTTCTGTCTTCTCAAAAAGAC
CATTCCTGTCCCCAGAATTTGGACCTGTTCTGTGTGAGTGGTCTGGAGCCTCACACACCCAGTGTGGTTCCAG
GAATCGGTGACTTTCCAAGATGTCGCTGTGGACTTTACCGAGAAGGAGTGGCCCTTGCTGGATTCTTCTCAGAGA
AAACTGTACAAAGATGTAATGCTGGAGAACTACAGCAACCTCACTTCACTGGGGTATCAGGTGCGCAAACCCAGC
CTCATCTCACACTTGGAGCAGGAGGAGGAGCCGAGGACAGAGGAGAGGGGCGCTCACCAGGGCGCTTGTGCAGAT
TGGGAGACTCCATCTAAACCAAGTGGTCACTTCTTATGGAAGATATTTTGGGAAGGAAACGCCAGTGGTGTG
ACGATGGAAAGAGCCGGTCTTGGAGAGAAGTCCACTGAATACGCTCACTTGTTCGAAGTCTTGGCATGGACCT
CATCTCACTCAGCCAATGGGAAGGCACGCTGGCAAGAGGCCCTATCACCGCCGCGACTATGGGGTAGCGTTCAAG
GGCAGGCCGCACCTCACTCAGCACATGAGCATGTACGACGGGAGAAAAATGCATGAATGTATCAGTGCCAAAAA
GCCTTACCACGAGCGCGTCCCTCACACGGCACAGGAGAATCCACACCGGGGAGAAGCCTTACGAGTGCAGCGAC
TGCGGGAAAGCCTTCAACGACCCTTCAGCCCTTAGGAGCCACGCAAGAACTCACCTCAAAGAGAAGCCCTTTGAC
TGCAGTCAGTGTGGAATGCATTCCGGACCCTCTCGGCCCTGAAAATCCACATGCGAGTTCACACTGGCGAGAGG
CCTTACAAGTGTGATCAGTGCAGGGAAGGCTTACGGCCGGAGCTGCCACCTCATCGCACACAAGAGAACGCACACC
GGAGAGAGGCCCTACGAGTGTACGACTGTGGGAAAGCTTTCCAGCACCCCTCCCACCTCAAAGAGCACGTGAGG
AATCACACGGGGGAGAAGCCCTACGCGTGCACGCAGTGGCGCAAAGCCTTCCGCTGGAAGTCCAACTTTAATTTG
CACAAGAAGAACCACATGGTGGAGAAGACCTACGAATGTAAAGAATGCGGGAATCCTTTGGCGATCTCGTGTCC
CGGAGGAAACACATGAGGATTCACATCGTCAAGAAACCCGTGGAATGTGCGCAGTGGCGGAAGACCTTCCGAAC
CAGTCCATCCTTAAGACTCACATGAACCTCTCACACTGGAGAGAAACCATAACGGGTGCGATCTCTGCGGGAAGCT
TTCAGCGCGAGTTCAAACCTCACCGCACACAGGAAGATACACACGCAAGAGAGACGCTACGAATGCGCCGCTGC
GGGAAAGTCTTCGGTGACTATTTATCCCGCGGAGGCACATGAGCGTTCACCTTGTAAGAAACGAGTTGAGTGT
AGGCAGTGTGGCAAGGCCTTCAGGAACCAGTCAACGCTGAAGACGCACATGCGAAGCCACACGGGGGAGAAACCG
TACGAATGCGATCACTGTGGGAAGGCCTTCAGCATAGGCTCCAACCTGAATGTGCACAGGCGGATCCACACCGG
GAGAAGCCCTACGAATGCCTTGTCTGCGGGAAAGCCTTCAGCGACCCTCATCCCTCAGGAGCCACGTGAAAAC
CACCGGGGAGAGAAGCTCTTGTGTCTATCCGTGTGGAAGGCTCCAGTGGAGCGCGCTGCTTTAGAGACACAGG
ATGATTACAGCCGGAACAGACCTCGTGGGTGTAAGAGGAAGCCTCTGTGAGCTCGCACCTTACTGGGTGCAAAA
GAATCCACGGAACCTTGGGAGAAGTCCAGTTCTGTGTAAGAACTGGGAAGACGAGGCGTTCTCATCCATAGGAGGT
TTGTGAGAACTCACGCCGGGGGTGAAAATGTACGTCTGTAGCATGGAGAAGCCTTCAGGGTACATTAGCTCTTA
ACAAACACAGGAGGACTTAATGGCAGCTTGGCATTTAATGTCAAAATCCAAGCCGTGGCATTTAATGTCAAAATG
ACTTCAGACCATTCTAGCCTTCTGGGCCCCATGAGTAATAATGAGCACACTAGGGAGCATCTCTGTAAACACAGT
GGCTGGGGAAACCCCTTCTAGTCTCACTTGATTCTCATGACGGAATCACACTAAAGAGAGAAATCAGTGAAGT
AAGGAACGTGGAAGGTGATGAATGGGCCGCAAACACGGCCAGCTGCTTGTCTTTGTATGGCTTGCCAGCTAACA
ATAGTGGTTCCATCTTTAAGGAAGAAGATGTTTGATGGAGAAAATTTGTGGCCAATGAAGTCTGAAATACTTCC
TGTCATCTGCCCTTTCCAGAAAAACTTGGCCGACCCTTGGTCTACAGCACGGGTTCTCAGTCGGGCGACGATTT
GGCTGTCTAGGCGTCATTTGGCAATGTCTAGAGACATTTTTGGTAGTTAGAATGGGGGAAGATACTCCTGACTT
GTAATAAGAAGACATCAGAGATGCTGCTAAGTCGGCTCCAGCACACAGGAGCCCCCACAACGAAGAGTTAGTGC
CCCCAAACGTCACTGTGCTGAGGTTGAAAATAATCATGCAGTCATTCTCAATTACTGCCTGCAGCAATTCCTC
CATTTTTATGAATCTTGTGAGCACTTACGCTAGGAGAAAATTTCTTTTACAAAATTTTAAAATACAATTAGTGCT
GATAATTCCTATGTGGAATGATTCCAGCCATGGTCCCTCACTTGAAGATGTGAATATTCTCACGGAGAGAAGC
CCCAGCGAGATTTCCGGTGAATACGGGATTGCACTTACTCTTTCATCACGGAACAGACCCCCCGAGAGAAGCC
CCAACGAGATTTCCGGTGAATACGGGACTGCACGTACTCTCTCATCATGAAAACAGAGCCCCGTTTATAAATTT
TTCATCTTTATTTTTAAGGTTATACTCCTCTAAATAACCCTTAAGCCTCATCAAGAAAGGTTTGTATAGTATT
TTTACTATAGCTTCATCCTTGATAACGTCCTAATTTCTTCTGGACAACCTCCTTGACCAATGGCATATTGAGAT
CTATGTGACATGAGGATATTTCTCAGTACCCTTTGTTACTGGTACCTGATGCACACGGATTGCGACCAGAGCAT
GATGCCCTCCATCAAGTGGTAATATGTTTGCAGCCTGCTGTCCAGCCAAGAGTGACAGATACTTCTAGTGAATTC

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FIGURE 5227B

CCGGTATCCACTCTCATCTTCTTCCAATATCAAGAGAATCCAGGTTCTGTCAGATTAGTAAGGTGTGCTAATCTA
AATTTTAAAAAATCTCTTACAGGTTTTCTTGCAGCTGGTACCATCCATGTCTCACAGCCCTGGCCACTGACAGAT
CAGCAGATGTCACCACATGGGCTTCTGAGAAAGCTCTTGAATGGGGATCGTTCTTAAACATGAATTCCTCCCTGT
ATGTTTTGTTCTTTGCTTTACTTTTCACCTTGCAAAGAGATCCAGTACCTAGTATTGGAAGATCCACCTTAACGA
CCGTGCATATGAAAACACAGTCTAAGGAAGTGACTGCAGAAAGCTCACAGCGACCCTGGCCTCCCCTGTGGCCT
CTTTGAGTGTCTGCAGCAGCCCTGGACTTCCAGACTTCTATCACATGAGAAAAATAAACTGATTATTGGTTTA
AGCTGC

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FIGURE 5228

MAALSPTFATSTQDSTCLQDSEFPVSSKDHSCPQNLDLFVCSGLEPHTPSVGSQESVTFQDVAVDFTKEWPLLD
SSQRKLYKDVMLENYSNLTS LGYQVGKPSLISHLEQEEPRTEERGAHQGACADWETPSKTKWSLLMEDIFGKET
PSGVTMERAGLGEKSTEYAHLEVF GMDPHLTQPMGRHAGKRPYHRRDYGVAFKGRPHLTQHMSMYDGRKMHECH
QCQKAFTTSASLTRHRIHTGEKPYECSDCGKAFNDPSALRSHARTHLKEKPFDCSQCGNAFRTLSALKIHM RVH
TGERPYKCDQCGKAYGRSCHLIAHKRTH TGERPYECHDCGKAFQHPSHLKEHVRNHTGEKPYACTQCGKA FRWKS
NFN LHKKNHMVEKTYECKE CGKSFGDLVSRRKHMRIHIVKKPVECRQCGKTFRNQSILKTHMNSHTGEKPYGCDL
CGKA FSASSNLTAHRKIHTQERRY ECAACGKVF GDYLSRRRHMSVHLVKKRVECRQCGKA FRNQSTLKTHMRSHT
GEKPYECDHCGKA FSIGSNLNVHRIHTGEKPYECLVCGKA FSDHSSLRSHVKTHRGEKLFVSSVWKRLQ

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FIGURE 5229

GTGTGCAATGGCTGCACACAGCAGCTTCCTTGGTAGTGTACGCAGCCTGTTGGTTGTATGGGTTGCTCTAAGGGA
CCTTGGAGACAGGCCCTTCCGATGGATGTTTCATGTTTCTAACCTTGCACTACCACAATGTAGGCTCCAAACAGGC
ATGTGAGGTGCCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTGACATTGGCCAAGTTATCATGTCCATCCGC
ACCAAGCTGCAGAACAAGGAGCATGCGATTGAGGCCTTGCGCAGGGCCAAGTTCAAGTTTCCTGGCCGCCAGAAG
ATCTACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAGAAGCGG
CTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAATCGTGGCCCTCTGGACAAGTGGCTGGCCCTGCACTCA
TGAGGGCTTCCAATGTGCTGCCCCCCTATTAATACTACCAATAAATTCTACTTCCTGTCCAAAAAAAAAAAA

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FIGURE 5230

CTAGGTCGGGACGCCGGGCTAGGGGCGCGTCAATGTGGCCGCTCACGGTCCC GCCGCCGCTGCTGCTGCTGCTGTG
CTCAGGCCTGGCCGGACAGACTCTCTTCCAGAACCAGAAGAGGGGCTGGCAGCTGTACACCTCAGCCCAGGCCCC
TGACGGGAAATGCATCTGCACGGCCGTGATCCCAGCGCAGAGTACCTGCTCTCGAGATGGCAGGAGTCGGGAGCT
GCGGCAACTGATGGAGAAGGTCCAGAACGTCTCCAGTCCATGGAGGTCCTTGAGTTGCGGACGTATCGCGACCT
CCAGTATGTACGCGGCATGGAGACCCTCATGCGGAGCCTGGATGCGCGGCTCCGGGCGAGCTGATGGGTCCCTCTC
GGCCAAGAGCTTCCAGGAGCTGAAGGACAGGATGACGGAACCTGTTGCCCTGAGCTCGGTCTGGAGCAGTACAA
GGCAGACACGCGGACCATTGTACGCTTGCGGGAGGAGGTGAGGAATCTCTCCGGCAGTCTGGCGGCCATTACAGGA
GGAGATGGGTGCCTACGGGTATGAGGACCTGCAGCAACGGGTGATGGCCCTGGAGGCCCGGCTCCACGCCTGCGC
CCAGAAGCTGGGCTGTGGGAAGCTGACCGGGGTGAGTAACCCCATCACCGTTCCGGGCCATGGGGTCCCGCTTCGG
CTCCTGGATGACTGACACGATGGCCCCAGTGGGATAGCCGGGTCTGGTACATGGATGGCTATTACAAAGGCCG
CCGGGTCTGGAGTTCCGTACCCTGGGAGACTTCATCAAAGGCCAGAACTTTATCCAGCACCTGCTGCCCCAGCC
GTGGGCGGGCACGGGCCACGTGGTGTACAACGGCTCCCTGTTCTATAACAAGTACCAGAGCAACGTGGTGGTCAA
ATACCACTTCCGCTCGCGCTCTGTGCTGGTGCAGAGGAGCCTCCCGGGCGCCGGTTACAACAACACCTTCCCCTA
CTCCTGGGGCGGCTTCTCCGACATGGACTTCATGGTGGACGAGAGCGGGCTCTGGGCTGTGTACACCACCAACCA
GAACGCGGGCAACATCGTGGTCAGCCGGCTGGACCCGCACACCCTCGAGGTGATGCGGTCTGGGACACCGGCTA
CCCCAAGCGCAGCGCTGGCGAGGCCTTCATGATCTGCGGTGTGCTCTACGTGACCAACTCCACCTGGCTGGGGC
CAAGGTCTACTTCGCCTATTTTACCAACACGTCCAGTTACGAGTACACGGACGTGCCCTTCCACAACCAGTATTC
CCACATCTCGATGCTGGATTACAACCCCGGGAGCGCGCCCTCTATACCTGGAACAACGGCCACCAGGTGCTCTA
CAATGTACCCCTGTTTACGTCATCAGCACCTCTGGGGACCCCTGAGCCAATGCTGTGGCTCGGGCTGCTGCCTG
GGGGCCTCCGGGGGCTGGGGGCCCTTTTCATTCTGCCTGTGTCCCTCAAGGTGATCTCTCTGTCTCTGTACG
CCCTTCTCCCCGCTTTTGTGCTGGGCTTTTGTCTCTGCCTATGTATTTCTGTCTATTTTTTCAATTTCCCTC
TTCTCCTTTATTGATCTCTGCTTTTAATACACCACTTCTTTCTTTCTGCCTTTTTATGGATGCTTTTTCTTTTT
ATGGCTCTGGTTCTCCAGTTCTTTCCGTCTCTGCCTCTCTCTGTCTCTCTCTCTGTCTTCCACCCCTCCCTC
CTTGCTTCCCACCCATTCCCTCATCCCTCACTCCACCCCCACCCCCACCCCCAGGAGTTGAGTGCATGGATCTGT
TTCTTTTTTTATTTACACTTTTCTTTCCGGTTTGCCGGAATAAACAGGACCTTTGACATTTGAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5231

MWPLTVPPPLLLLLCSGLAGQTLFQNP EEGWQLY TSAQAPDGKC ICTAVIPAQSTCSR DGRSREL RQLMEKVQNV
SQSMEVLELR TYRDLQYVRGMETLMRSLDARLRAADGSLSAKSFQELKDRMTELLPLSSVLEQYKADTRTIVRLR
EEVRNLSGSLAAIQEEMGAYGYEDLQQRVMALEARLHACAQKLGCGKLTGVSNPITVRAMGSRFGSWMTDTMAPS
ADSRVWYMDGYKGRRVLEFRTLGDFIKGQNF IQHLLPQPWAGTGHVVYNGSLFYNKYQSNVVVKYHFRSRSVLV
QRSLPGAGYNNTFPYSWGGFSDMDFMVDESGLWAVYTTNQNAGNIVVSRLDPHTLEV MRSWDTGYPKRSAGEAFM
ICGVLYVTNSHLAGAKVYFAYFTNTSSYEYTDVPFHNQYSHISMLDYNPRERALYTWNNGHQVLYNVTLFHVIST
SGDP

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FIGURE 5232

AGGAGGCCCTCGTGGAGGACACAGCAGCATGGGACAGTCAGGGAGGTCCCGGCACCAGAAGCGCGCCCCGCGCCCAG
GCGCAGCTCCGCAACCTCGAGGCCTATGCCGCGAACCCGCACTCGTTTCGTGTTACGCGAGGCTGCACGGGTTCGC
AACATCCGGCAGCTCAGCCTGGACGTGCGGCGGGTCATGGAGCCGCTCACTGCCAGCCGTCTGCAGGTTTCGTAAG
AAGAACTCGCTGAAGGACTGCGTGGCAGTGGCTGGGCCCCCTCGGGGTACACACTTTCTGATCCTGAGCAAAACA
GAGACCAATGTCTACTTTAAGCTGATGCGCCTCCCAGGAGGCCCCACCTTGACCTTCCAGGTGAAGAAGTACTCG
CTGGTGCCTGATGTGGTCTCCTCACTGCGCCGGCACCGCATGCACGAGCAGCAGTTTGCCACCCACCCCTCCTG
GTACTCAACAGCTTTGGCCCCCATGGTATGCATGTGAAGCTCATGGCCACCATGTTCCAGAACCTGTTCCCTCC
ATCAACGTGCACAAGGTGAACCTGAACACCATCAAGCGCTGCCTCCTCATCGACTACAACCCCGACTCCAGGAG
CTGGACTTCCGCCACTATAGCATCAAAGTTGTTCTGTGGGCGCGAGTCGCGGGATGAAGAAGCTGCTCCAGGAG
AAGTTCCCCAACATGAGCCGCTGCAGGACATCAGCGAGCTGCTGGCCACGGGCGCGGGGCTGTGCGGAGAGCGAG
GCAGAGCCTGACGGCGACCACAACATCACAGAGCTGCCTCAGGCTGTGCTGGCCGTGGCAACATGCGGGCCCCAG
CAGAGTGCAGTGCGGCTCACCGAGATCGGCCCGCGGATGACACTGCAGCTCATCAAGGTCCAGGAGGGCGTCGGG
GAGGGCAAAGTGATGTTCCACAGTTTGTGAGCAAGACGGAGGAGGAGCTGCAGGCCATCCTGGAAGCCAAGGAG
AAGAAGCTGCGGCTGAAGGCGCAGAGGCAGGCCCCAGCAGGCCCAGAATGTGCAGCGCAAGCAGGAGCAGCGGGAG
GCCACAGAAAGAAGAGCCTGGAGGGCATGAAGAAGGCACGGGTTCGGGGTAGTGATGAAGAGGCCTCTGGGATC
CCTTCAAGGACGGCGAGCCTGGAGTTGGGTGAGGACGATGATGAACAGGAAGATGATGACATCGAGTATTTCTGC
CAGGCGGTGGGCGAGGCGCCAGTGAGGACCTGTTCCCCGAGGGCCAAGCAGAAACGGCTTGCCAAGTCTCCAGGG
CGGAAGCGGAAGCGGTGGGAAATGGATCGAGGCAGGGGTGCGCTTTGTGACCAGAAGTTTCCCAAGACCAAGGAC
AAGTCCCAGGGAGCCCAGGCCAGGCGGGGGCCCAGAGGGGCTTCCCAGGGATGGTGGGCGAGGCCGGGGCCGGGGC
CGCCCAGGGGAAGAGAGTGCCCTGAAGCCCAAGCCGCACCGGAGCAGCGGCTGGATTGAACGCCCCAGATTGGGGCC
CGAGATGTGGCCCTCGGTTTCCTTTCATAAAGGAGTTGTGTCCCCAGCCCTTCCACTCCAGTAAAGAAGTGAATT
GGC

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FIGURE 5233

MGQSGRSRHQKRARAQAQLRNLEAYAANPHSFVFTRGCTGRNIRQLSLDVRRVMEPLTASRLQVRKKNSLKDCVA
VAGPLGVTHFLILSKTETNVYFKLMRLPGGPTLTTFQVKKYSLV RDVVSSLRHRMHEQQFAHPPLLVLNSFGPHG
MHVKLMATMFQNLFPSINVHKVNLNTIKRCLLDYNPDSQELDFRHYSIKVVPVGASRGMKKLLQEKFPNMSRLQ
DISELLATGAGLSESEAE PDGDHNITELPQAVAGRGNMRAQQSAVRLTEIGPRMTLQLIKVQEGVGEGKVMFHSF
VSKTEEELQAILEAKEKKLRLKAQRQAQQAQNVQRKQEQREAHKKKSLEGMKKARVGGSDDEEASGIPSR TASLEL
GEDDDEQEDDDIEYFCQAVGEAPSEDLFPEAKQKRLAKSPGRKRKRWEMDRGRGRLCDQKFPKTKDKSQAQARR
GPRGASRDGGRGRGRGRPGKRVA

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FIGURE 5234

CTTTTTCGGATGCCTACTGGGGACTTTGATTGGAAGCCCAGTTGGGCCGACCAGGTGGAGGAGGAGGGGGAGGAC
GACAAATGTGTCACCAGCGAGCTCCTCAAGGGGATCCCTCTGGCCACAGGTGACACCAGCCCAGAGCCAGAGCTA
CTGCCGGGAGCTCCACTGCCGCCTCCCAAGGAGGTCATCAACGGAAACATAAAGACAGTGACAGAGTACAAGATA
GATGAGGATGGCAAGAAGTTCAAGATTGTCCGCACCTTCAGGATTGAGACCCGGAAGGCTTCAAAGGCTGTGCA
AGGAGGAAGAAGTGGAGAAGTTCGGGAAGTCAGAGTTTGACCCCCCGGACCCAATGTGGCCACCACCACTGTC
AGTGACGATGTCTATGACGTTTCATCACCAGCAAAGAGGACCTGAACTGCCAGGAGGAGGAGGACCCCTATGAAC
AAACTCAAGGGCCAGAAGATCGTGTCTGCCGCATCTGCAAGGGCGACCACTGGACCACCCGCTGCCCTTACAAG
GATACGCTGGGGCCCATGCAGAAGGAGCTGGCCGAGCAGCTGGGCCTGTCTACTGGCGAGAAGGAGAAGCTGCCG
GGAGAGCTAGAGCCGGTGCAGGCCACGCAGAACAAGACAGGGAAGTATGTGCCGCCGAGCCTGCGCGACGGGGCC
AGCCGCCCGGGGAGTCCATGCAGCCCAACCGCAGAGCCGACGACAACGCCACCATCCGTGTACCAACTTGTCA
GAGGACACGCGTGAGACCGACCTGCAGGAGCTCTTCCGGCCTTTCGGCTCCATCTCCCGCATCTACCTGGCTAAG
GACAAGACCACTGGCCAATCCAAGGGCTTCGCCTTCATCAGCTTCCACCGCCGCGAGGATCGTGCGCGTGCCATT
GCCGGGGTGTCCGGCTTTGGCTACGACCACCTCATCTCAACGTGAGTGGGCCAAGCCGTCCACCAACTTAAGCC
AGCTGCCACCGTGTACTCGGTCCGGGACCCCTTGGCGACAGAAGACAGCCTCCGAGAGCGCGGGCTCCAAGGGCAA
TAAAGCAGCTCCACTCTCAA

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FIGURE 5235

MPTGDFDSKPSWADQVEEEGEDDKCVTSELLKGIPLATGDTSPPELLPGAPLPPPKEVINGNIKTIVTEYKIDED
GKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATTTVSDDVSMTFITSKEDLNCQEEEDPMNKLK
GQKIVSCRICKGDHWTTRCPYKDTLGPMQKELAEQLGLSTGEKEKLPGELEPVQATQNKGTGKYVPPSLRDGASRR
GESMQPNRRADDNATIRVTNLS EDTRETDLQELFRPFGSISRIYLAKDKTTGQSKGFAFISFHRREDRARAIAGV
SGFGYDHLILNVEWAKPSTN

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FIGURE 5236

TGTGAGGTTCGCGTTCCCCAGTGTTACGGAGGGTCCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTTCGGACCCCTCCATCTTCGGTTTTGCACACCCCGCTTTCAGCGCGGAGT
CGCGGCGGGTAGGGCGGCGTCGCGTGCGTGACGTATCCAGCGGCGCCTCGCGAGGCTCCAGTGGCCTTGACCTC
CCGCGGCGTGGGAGGCTGCGCGGCGATGCTGCAGTTCGTCCGGGCCGGGGCGCGGGCCTGGCTTCGGCTACCGG
CAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGGTGCGACCGAGAACC CGGAGCAGGTGGCGAGCGAGGG
TCTCCCGGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTCTGA
GTCCTTGCGGGGGCTTCGAGCAGGAGCGCGTGGGCCTGGCCGACCTGCACCCCGATGTTTTCGCCACCGCGCCAG
GCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAG
AGCCGAGGTGCGGGGCGGTGGCCGGAAGCCTTGCCCGCAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATCCG
CTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCAT
GAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACTC
CCTAGAGCTGCCCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTACT
CCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACTT
GATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCACCGTCGC
CTCCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCGA
CTTCCCCGACCCCTACCCACGCTACCCAGGGCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTCT
TCTGAGCCAGGCCGAGCCCTGGCCGACTTGGGAGCCTCAGGCCACGCCCACCCCTTCGAGGAAGGTGTACCTG
GACCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGGA
AAGCCCAGACGGGCTTCTGCATCCATTCCCTCTTTTGTTTTTTAAATAAATTGTATTTTTG

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FIGURE 5237

GGCACGAGGCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAGATGGTGGACTACAGCGTGTGGGACCA
CATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAGTCTCTTCCGCTGGCGGCATCA
GGCCCGGGTGAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAAGTGGACAGGGGCTGCCGCGAGTGCAAGCG
CAAGGTGGCCGAGTGCCAGAGGAACTGAAGGAGCTGGAGGTGGCCGAGGGCGGCAAGGCAGAGCTGGAGCGCCT
GCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAGCTGGAGGAGATGCGCAAGAAGGA
GAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAGACGGCTTCAGCAAGAGCATGGTAAATACCAAGCCCCGA
GAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGTGGAAAAATACGAGAAACAGAT
CAAGCACTTTGGCATGCTTCGCCGCTGGGATGACAGCCAAAAGTACCTGTCAGACAACGTCCACCTGGTGTGCGA
GGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACCTAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGT
GGCCACCAGACAATCGTCATGCAATTTATCCTGGAGCTGGCCAAGAGCCTAAAGGTGGACCCCGGGCCTGCTT
CCGGCAGTTCTTCACTAAGATTAAGACAGCCGATCGCCAGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTT
CAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCGAGAAGGCCATGAAGGAGTACGAGGAGGAGGAGCGCAA
GAAGCGGCTCGGCCCGGGCGGCTGGACCCCGTTCGAGGTCTACGAGTCCCTCCCTGAGGAACTCCAGAAGTGCTT
CGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCAGCAAGATGGACCCACCGACGCAAAGTACCACATGCA
GCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTAAGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCC
TGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCGATGAGAAGGATGTCAGTGTGTGACCTGCCCCAGCTAC
CACCGCCACCTGCTTCCAGGCCCTATGTGCCCCTTTTCAGAAAACAGATAGATGCCATCTCGCCCGCTCCTGAC
TTCCTCTACTTGCGCTGCTCGGCCAGCCTGGGGGGCCGCCAGCCCTCCCTGGCCTCTCCACTGTCTCCACTC
TCCAGCGCCCAATTCAAGTCTCTGCTTTGAGTCAAGGGGCTTCACTGCCTGCAGCCCCCATCAGCATTATGCCAA
AGGCCCCGGGGTCCGGGGAAGGGCAGAGGTCAACAGGCTGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAAG
GGGCCGGCTCTCGTCACTGGGCTCTGTTTTCACTGTTCTGCTGTCTGTCTTCTATTGTCGAAACAGCAAT
GATCTTCCAATAAAAGATTTAGATGCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5238

MVDYSVWDHIEVSDDDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRGCRECKRKVAECQQRKLKELEVAE
GGKAELERLQAEAQQLRKEERSWEQKLEEMRKKEKSMPWNVDTLSKDGFSKSMVNTKPEKTEEDSEEVREQKHKT
FVEKEYEKQIKHFGMLRRWDDSQKYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQITIVMQFILELAKS
LKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVGRAKLRIEKAMKEYEEEEERKKRLGPGGLDPVEVYES
LPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKASEAKEGEEAGPGDFLLEAVPKTGDEKD
VSV

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FIGURE 5239

CGCGCAGCGATGGAGGCGCCGGGGCTCGGGCGGTGGAGGCGGAGCCGGAGCGCGGCCATGGCGGGGTCCCTGAGT
GCCAGAGGTGGTGGTGTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCCTAGCGGGGCTGGGGCCTG
CTGCCGATTCTGCCCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGTGATGTACGCCTCCACTGAGTG
CAAGGCGGAGGTGACGCCCTCCCAGCATGGCAACCGCACCTTCAGCTACACCCTGGAGGATCATACCAAGCAGGC
CTTTGGCATCATGAACGAGCTGCGGCTCAGCCAGCAGCTGTGTGACGTCACACTGCAGGTCAAGTACCAGGATGC
ACCGGCCGCCAGTTTCATGGCCACAAGGTGGTGTGCTGGCCTCATCCAGCCCTGTCTTCAAGGCCATGTTACCAA
CGGGCTGCGGGAGCAGGGCATGGAGGTGGTGTCCATTGAGGGTATCCACCCCAAGGTCATGGAGCGCCTCATTGA
ATTGCGCTACACGGCCTCCATCTCCATGGGCGAGAAGTGTGTCCTCCACGTCATGAACGGTGCTGTTCATGTACCA
GATCGACAGCGTTGTCCGTGCCTGCAGTGACTTCCTGGTGCAGCAGCTGGACCCAGCAATGCCATCGGCATCGC
CAACTTCGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCGGGAGTACATCTACATGCATTTTGGGGA
GGTGGCCAAGCAAGAGGAGTTCTTCAACCTGTCCCACTGCCAATGGTGACCCTCATCAGCCGGGACGACCTGAA
CGTGCGCTGCGAGTCCGAGGTCTTCCACGCCTGCATCAACTGGGTCAAGTACGACTGCGAACAGCGACGGTTCTA
CGTCCAGGCGCTGCTGCGGGCCGTGCGCTGCCACTCGTTGACGCCGAACCTTCTGCAGATGCAGCTGCAGAAGTG
CGAGATCCTGCAGTCCGACTCCCGCTGCAAGGACTACCTGGTCAAGATCTTCGAGGAGCTCACCCTGCACAAGCC
CACGCAGGTGATGCCCTGCCGGGCGCCCAAGGTGGGCGCGCTGATCTACACCGCGGGCGGCTACTTCCGACAGTC
GCTCAGCTACCTGGAGGCTTACAACCCCACTGACGGCACCTGGCTCCGGTTGGCGGACCTGCAGGTGCCGCGGAG
CGGCCTGGCCGGCTGCGTGGTGGGCGGGCTGTTGTACGCCGTGGGCGGCAGGAACAACCTCGCCCGACGGCAACAC
CGACTCCAGCGCCCTGGACTGTTACAACCCCATGACCAATCAGTGGTCGCCCTGCGCCCCCATGAGCGTGCCCCG
TAACCGCATCGGGGTGGGGGTTCATCGATGGCCACATCTATGCCGTGCGCGGCTCCACGGCTGCATCCACCACAA
CAGTGTGGAGAGGTATGAGCCAGAGCGGGATGAGTGGCACTTGGTGGCCCCAATGCTGACACGAAGGATCGGGGT
GGGCGTGGCTGTCTCAATCGTCTCCTTTATGCCGTGGGGGGCTTTGACGGGACAAACCGCCTTAATTACAGTGA
GTGTTACTACCCAGAGAGGAACGAGTGGCGAATGATCACAGCAATGAACACCATCCGAAGCGGGGAGGCGTCTG
CGTCTGCACAACGTATCTATGCTGCTGGGGGCTATGATGGTCAGGACCAGCTGAACAGCGTGGAGCGCTACGA
TGTGGAAACAGAGACGTGGACTTTTCGTAGCCCCCATGAAGCACCGGCGAAGTGCCCTGGGGATCACTGTCCACCA
GGGGAGAATCTACGTCTTTGGAGGCTATGATGGTCACACGTTTCTGGACAGTGTGGAGTGTACGACCCAGATAC
AGACACCTGGAGCGAGGTGACCCGAATGACATCGGGCCGGAGTGGGGTGGGCGTGGCTGTACCATGGAGCCCTG
CCGAAGCAGATTGACCAGCAGAACTGTACCTGTTGAGGCACCTTTTGTCTTGGGCAAAAATACAGTCCAATGG
GGAGTATCATTGTTTTTGTACAAAAACCGGGACTAAAAGAAAAGACAGCACTGCAAATAACCCATCTTCCGGGAA
GGGAGGCCAGGATGCCTCAGTGTTAAATGACATCTCAAAGAAGTCCAAAGCGGGAATCATGTGCCCTCAGCG
GAGCCCCGGGAGTGTCCAAGACAGCCTGGCTGGGAAAGGGGGTGTGGAAAGAGCAGGCTTCCAGGAGAGAGGCC
CCAAACCCTCTGGCCGGGTAATAGGCCTGGGTCCCACTACCCATGCCGGCAGCTGTACCATGTGATTTATTCT
TGGATACCTGGGAGGGGGCCAATGGGGGCCTCAGGGGAGGCCCCCTCTGGAAATGTGGTTCCAGGGATGGGCC
TGTACATAGAAGCCACCGGATGGCACTTCCCCACCGGATGGACAGTTATTTGTTGATAAGTAACCCTGTAATTT
TCCAAGGAAAATAAAGAACAGACTAACTAGTGTCTTTC

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FIGURE 5240

TTTTACAAAACGCTCTCCTTGTTGAAGAAGAAGGACCCCCGCATTTATCAGAAAGATGCCACCTTCTATAACAGA
ACAGCATCGTCATCAGACAGTGAGGAGGACCCAGAAGCCTTGGAGAAGCAGAAGAAAGTGCGGCCCCATGTACCTG
AAGGACTACGAGAGGAAGGTTATCTTGGAGAAGGCAGGCAAATATGTTGATGAGGAGAAGCTCAGACGGGGAGACT
TCCAATCAGACTCCAGGAGACATCGTCGCAAAGTTATGTGGAGGAACAGAAACAGCTCAAGGAAAGCTTCCGG
GCATTTGTGGAGGACAGTGAGGACGAGGACGGCGCTGGGGAGGGCGGCTCCAGTTTGCTGCAGAAACGTGCCAAA
ACCAGGCAGGAGAAGGCCAGGAGGAGGCCGACTACATCGAGTGGCTGAAGGGACAGAAAGAGATTTCGGAACCCA
GATTCCTGAAGGAAGTACGCATCTCAAGGAATACTGGAACGACCCCTGAGTTGGATGAAGGGGAGCGGTTCTTG
CGGGATTACATCCTCAACAAACGCTATGAGGAGGAGGAAGAGGAGGAGGAAGATGAAGAGGAAATGGAGGAAGAG
GAGGGGGTCCACGGTCCCCCAGTCCAGCTGGCTGTGGACGACTCCTCAGACGAAGGGGAGCTGTTTCTGAAGAAA
CAGGAGGACTTTGAACAGAAGTACAATTTCCGTTTCGAGGAGCCGGACTCAGCATCGGTCAAGACCTACCCACGC
AGCATCGGTCCTCCGTGCGCCGTAAGGATGAGCGCAGAAAGGAGAAGAGGGGAAGAGACTCGGGAGCGAAAGAAG
AGGGAGAAAGCAAAGAAGCAGGAAGAGCTCAAGCAGCTGAAGAACCTGAAGAGGAAGGAGATTCTGGCCAAGCTG
GAGAAGCTGCGGAAAGTAACAGGCAACGAGATGCTGGGCCTCGAGGAGGGGGACCTTGAAGACGACTTCGACCCCT
GCCCAGCACGACCAGCTCATGCAGAAAGTGCTTTGGGGACGAGTACTACGGGGCCGTGGAGGAGGAGAAGCCACAA
TTTGAGGAAGAAGAAGGGCTTGAAGACGACTGGAAGTGGGACACGTGGGACGGGCCTGAGCAGGAGGGAGACTGG
AGCCAGCAGGAGCTGCACTGTGAGGACCCCAACTTCAACATGGACGCCGACTACGACCCAGCCAGCCGAGGAAG
AAAAAGCGCGAGGCCCCCTTGACGGGCAAGAAGAAGCGCAAGTCGCCCTTCGCCGCGGCCGTGGGGCAGGAGAAG
CCCGTGTGTTGAACCCGGGGACAAGACGTTTCGAGGAGTACCTGGATGAGTATTACCGGCTGGACTACGAGGACATC
ATCGACGACCTGCCCTGTCGCTTCAAGTACCGCACAGTGGTGCCCTGTGACTTTGGCCTCAGCACTGAGGAGATC
CTCGCTGCTGACGATAAGGAGCTGAACCGGTGGTGCTCCCTAAAGAAGACCTGCATGTACAGGTGAGAGCAGGAG
GAGCTGCGGGACAAGCGGGCGTACAGCCAGAAGGCCACAGGGAAGCCACAGAGAGATGAAGCCGGCCCCACAGAGGCAG
TGCCGAGAAGAGGCAGAGACACCTGCGGAAGCCACAGGGAAGCCACAGAGAGATGAAGCCGGCCCCACAGAGGCAG
CTGCCAGCCCTTGATGGCAGCTTGATGGGGCCGGAGAGTCCCCAGCACAGGAAGAGGAAGCCCTGTATACCCC
CACAAGAAGCCAGCCCCCAGAAGCGGAGGAGGGCCAAGAAGGCACGGCTGCTGGGCCCCACTGTGATGCTTGGT
GGATGCGAGTTTCAGCCGCCAGAGACTGCAGGCCTTTGGCCTCAACCCCAAACGGCTGCACTTCCGCCAGCTGGGC
CGGCAGCGGAGGAAAACAACAGGGGCCCAAGAACAGCTCCTGAGCACCAGGAGCAGGCAGGGGCCCTCAGGCTCCT
CTCCTCAAATCAAGCCCTGGACAGGTCTCGCACCCACAAGTACTATCTGCTGCAGAGATCCTCTCATCTGTGGCC
AGGCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGTGAAAGGATCACTTGAGCCAGGAATTGGAGACCAGC
GTGGGCAACTTAGCGAGACTCCATCTCTACAAAATGTGGTGACACATGCCTGTAGTCCCAGCTACTCAGGAGGCT
GGGGAAGGAAGATCACTTAAGGCCATGAGTTTGAGGCTACAGAGAGCTATGATTGCACCACTGCACTCCAGCCTG
GGCAACAAAGCAAGACCCTGTCTCTTG

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FIGURE 5241

GGCGCTTCCGCAGGAAGAAGGAAGCGGCGCCGCCATCGCCTCCCGGCGCTCCCTCCCCGACTCCTAAGTCCTTCG
GCCGCCACCAATGTCGCGCTGCTTTCATTCTGGACGTTAAGGGCAAGCCATTGATCAGCCGCAACTACAAG
GGCGATGTGGCCATGAGCAAGATTGAGCACTTCATGCCCTTGCTGGTACAGCGGGAGGAGGAAGGCGCCCTGGCC
CCGCTGCTGAGCCACGGCCAGGTCCACTTCCTATGGATCAAACACAGCAACCTCTACTTGGTGGCCACCACATCG
AAGAATGCCAATGCCTCCCTGGTGTACTCCTTCCTGTATAAGACAATAGAGGTATTCTGCGAATACTTCAAGGAG
CTGGAGGAGGAGAGCATCCGGGACAACCTTTGTCTCGTCTACGAGTTGCTGGACGAGCTCATGGACTTTGGCTTC
CCGCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGCAGAGCAACAAGCTGGAGACGGGCAAGTCA
CGGGTGCCACCCACTGTCACCAACGCTGTGTCTGGCGCTCCGAGGGTATCAAGTATAAGAAGAACGAGGTCTTC
ATTGATGTCATAGAGTCTGTCAACCTGCTGGTCAATGCCAACGGCAGCGTCCTTCTGAGCGAAATCGTCGGTACC
ATCAAGCTCAAGGTGTTTTCTGTGAGGAATGCCAGAGCTGCGGCTGGGCTCAATGACCGCGTGCTCTTCGAGCTC
ACTGGCCGCAGCAAGAACAATCAGTAGAGCTGGAGGATGTAAATTCACCAAGTGCGTGCGGCTCTCTCGCTTT
GACAACGACCGCACCATCTCCTTCATCCCGCTGATGGTGACTTTGAGCTCATGTCTATACCGCTCAGCACCCAG
GTCAAGCCACTGATCTGGATTGAGTCTGTCAATTGAGAAGTTCTCCACAGCCGCGTGAGATCATGGTCAAGGCC
AAGGGGCAGTTTAAGAAACAGTCAGTGGCCAACGGTGTGGAGATATCTGTGCTGTACCCAGCGATGCCGACTCC
CCCAGATTCAAGACCAGTGTGGGCAGCGCCAAGTATGTGCCGGAGAGAAACGTCGTGATTTGGAGTATTAAGTCT
TTCCCGGGGGGCAAGGAGTACTTGATGCGAGCCCACTTTGGCTCCCCAGTGTGGAAAAGGAAGAGGTGGAGGGC
CGGCCCCCATCGGGGTCAAGTTTGAGATCCCCTACTTCACCGTCTCTGGGATCCAGGTCCGATACATGAAGATC
ATTGAGAAAAGTGGTTACCAGGCCCTGCCCTGGGTTCGCTACATCACCCAGAGTGGCGATTACCAACTTCGTACC
AGCTAGAAAGGGAGAAGAGATGGGGGCTTGAACACGGGGCTTCCTTACAGCCCCGGATGCAGATTTTAGAGGGAGG
GCAGGTGCGGGCTGTGTGTCTGTGTGAGGGCAGGTCTGGACTTGGCAGTTTCTTGCTCCCAGCACCCGCCCC
TTCCTCACCTCTTCCTTATTCATAGGCTGGGAGAGAACTCTCTGCTTCCTCGCCCTTGGAGCTTTCCCCATC
CCCCTGATTTTATATGAAGAAATAGAAGAGGGGCTTGAAGTCCCCCTCGCGAGTGCTTCTTGCAATTACCTGCC
TTAGCGGTGTTGCGGGTCCCTCCTTCACAGCCGCTGAGCCCAGAGGTCCCGCTGGCCCCCTCTCTGAATTTTAG
GATGTCATTAAAAAGATGAATCTA

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FIGURE 5242

MSASAVFILDVKGKPLISRNYKGDVAMSKIEHFMPLLVQREEEGALAPLLSHGQVHFLWIKHSNLYLVATTSKNA
NASLVYSFLYKTIEVFCEYFKELEESIRDNFVIVYELLDELMDFGFPQTDSKILQEYITQOSNKLETGKSRVP
PTVTNAVSWRSEGIKYKKNEVFIDVIESVNLLVNANGSVLLSEIVGTIKLKVFLSGMPELRLGLNDRVLFELTGR
SKNKSVELEDVKFHQCVRLSRFDNDRTISFIPPDGDFELMSYRLSTQVKPLIWIESVIEKFSHSRVEIMVKAKGQ
FKKQSVANGVEISVPVPSDADSPRFKTSVGS AKYVPERNVVIWSIKSFPGGKEYLMRAHFGLP SVEKEEVEGRPP
IGVKFEIPYFTVSGIQVRYMKIIEKSGYQALPWVRYITQSGDYQLRTS

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FIGURE 5243

ATGGGGGACGAGCGGCCCCACTACTACGGGAAACACGGAACGCCACAGAAGTATGATCCCACTTTCAAAGGACCC
ATTTACAATAGGGGCTGCACGGATATCATATGCTGTGTGTTCTTGCTCCTGGCCATTGTGGGCTACGTGGCTGTA
GGCATCATAGCCTGGACTCATGGAGACCCTCGAAAGGTGATCTACCCCACTGACAGCCGGGGCGAGTTCTGCGGG
CAGAAGGGCACAAAAACGAGAACAAACCCATCTGTTTTATTTC AACATTGTGAAATGTGCCAGCCCCCTGGTT
CTGCTGGAATTCCAATGTCCCACTCCCCAGATCTGCGTGGA AAAATGCCCGACCGCTACCTCACGTACCTGAAT
GCTCGCAGCTCCCGGGACTTTGAGTACTATAAGCAGTTCTGTGTTCTTGCTTCAAGAACAATAAAGGAGTGGCT
GAGGTGCTTCAAGATGGTGACTGCCCTGCTGTCTCATCCCCAGCAAACCCTTGGCCCGGAGATGCTTCCCCGCT
ATCCACGCCTACAAGGGTGTCTGTATGGTGGGCAATGAGACGACCTATGAGGATGGGCATGGCTCCCCGGA AAAAC
ATCACAGACCTGGTGGAGGGCGCCAAGAAAGCCAATGGAGTCTTAGAGGCGCGGCAACTCGCCATGCGCATATTT
GAAGATTACACCGTCTCTTGGTACTGGATTATCATAGGCCTGGTCATTGCCATGGCGATGAGCCTCCTGTTTCATC
ATCCTGCTTCGCTTCCTGGCTGGTATTATGGTCTGGGTGATGATCATCATGGTGATTCTGGTGCTGGGCTACGGA
ATATTTCACTGCTACATGGAGTACTCCCGACTGCGTGGTGAGGCGGGCTCTGATGTCTCTTTGGTGGACCTCGGC
TTTCAGACGGATTTCCGGGTGTACCTGCACCTACGGCAGACCCTGGTTGGCCTTTATGATCATTCTGAGTATCCTT
GAAGTCATTATCATCTTGCTGCTCATCTTTCTCCGGAAGAGAATTCTCATCGCGATTGCACTCATCAAAGAAGCC
AGCAGGGCTGTGGGATACGTCATGTGCTCCTTGCTCTACCCACTGGTCACCTTCTTCTTGCTGTGCCTCTGCATC
GCCTACTGGGCCAGCACTGCTGTCTTCTGTCCACTTCCAACGAAGCGGTCTATAAGATCTTTGATGACAGCCCC
TGCCCATTTACTGCGAAAACCTGCAACCCAGAGACCTTCCCCCTCCTCCAATGAGTCCCGCCAATGCCCAATGCC
CGTTGCCAGTTCGCCTTCTACGGTGGTGAGTCGGGCTACCACCGGGCCCTGCTGGGCCTGCAGATCTTCAATGCC
TTCATGTTCTTCTGGTTGGCCAACTTCGTGCTGGCGCTGGGCCAGGTCACGCTGGCCGGGGCCTTTGCCTCCTAC
TACTGGGCCCTGCGCAAGCCGGACGACCTGCCGGCCTTCCCGCTCTTCTCTGCCTTTGGCCGGGCGCTCAGGTAC
CACACAGGCTCCCTGGCCTTTGGCGCGCTCATCTGGCCATTGTGCAGATCATCCGTGTGATACTCGAGTACCTG
GATCAGCGGCTGAAAGCTGCAGAGAACAAGTTTGCCAAGTGCCATGACCTGTCTCAAATGCTGCTTCTGGTGC
CTGGAGAAGTTCATCAAATTCCTTAATAGGAATGCCTACATCATGATTGCCATCTACGGCACCAATTTCTGCACC
TCGGCCAGGAATGCCTTCTTCTGCTCATGAGAAACATCATCAGAGTGGCTGTCCTGGATAAAGTTACTGACTTC
CTCTTCTGTTGGGCAAACCTTCTGATCGTTGGTAGTGTGGGGATCCTGGCTTTCTTCTTCAACCCACCGTATC
AGGATCGTGCAGGATACAGCACCACCCCTCAATTATTACTGGGTTCCTATACTGACGGTGATCGTTGGCTCCTAC
TTGATTGCACACGGTTTCTTCAGCGTCTATGGCATGTGTGTGGACACGCTGTTCTCTGCTTCTTGGAGGACCTG
GAGAGGAATGACGGCTCGGCCGAGAGGCCCTTACTTCATGTCTTCCACCCCTCAAGAACTCTTGAACAAGACCAAC
AAGAAGGCAGCGGAGTCCTGA

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FIGURE 5244

GACCGGGGGCGAGCGGGCGGGCGGGCAGGCGCGCGCGGGGAGGTGCGGGAAACACGTGACCGGCTGAAGCCCCGC
CCCCTTTGACGCCGCGTTGCGCCTCGACGCAGGCCCAACCCAAATGGGAGGGAGGGGCGAAAAAGAGATAAGGGGG
GGGCTGAGGGGGTGGGCGTGAGTTGCACGTGGTGCAAGCGGGAGTGTTTGCCTGCGTAGTCACGTGACTTCGGCA
CCTTTCCCTCCGCTTTTCGATAGGTTGCTCCATCATGTGACAATGGCGAATTTTCGCGGTTTCCCTTCGCCATCTGAC
AACTTTTGGCGCCTTCCCTTTGCGGTACTGGGAGTCCCTCCATCACGTGACGAGGGGCACGCTCTGGTTTTTCGCTAA
GGCGTTTTTTGAGCGGCCATTACCACGTGATGCAAGGCAAGCGTCAGAGGCGGAGCCTCCCTACGGCTGCGACAT
TTTGGCGCTGCGCGGCCGCCATCTTACGCCCGTCGCCCTGAGTACGTTAGCGGAAATGGCTCCGAGAGGGCTTTGA
CGCATGTGTACCTTTTTAGTGGCGGTATCTCGGCCGGGGATTTTCGGGCTCCAGTGAGGTGGCTATGCTCACCC
CATCTCCCTTGAGAGGCACAGAAGGTTAGAGATGTGTGCGAGGAACGGCCAGGTCCAGCGTCTCCTCGTTGCTGC
CCCTTGAGCCCGGGACCGGCCCAATGCGCGCCCGGGTTCTTGGGTTCTTTCGTCCCGCAGACCTGCCTTGGTGT
GGCGTCCCTGGGCGTAGCTTCCGAAGGCTGCAGCCGACCTGGTGGGCTCCTCTAGCCCGCCTTCCCTTCCCTTCCCT
CATTGACAGATGGAGAACTGAGGCCCAGGCCAAAAATATCTCACTAGAGGGCTCACCGCCATTTCTTGAAAAA
ATTGGGGCTGGGACTCAACGGACGCTCGTCCAGCAGCAGCGCGGAGCTCCGAAGTAAAGGCGCCCGTGACCGAGT
GCTTTGTCTTACAAGCGTGGTGTCTTGAATGCTTCCAGGCGCCTTATGAGGCCCCGATGTACAATCTGTGCT
TAACTAAACCCCACTGTCTTCCAGGCTCAGGTTGGCCATCCGAGGCGTAGTTGCTAGGAAGGTTTGACAGATGT
CCGCGTGTGATTACAGAGTTCCAGGATTTGGAGCAAGAAGAGCAAGGAAGGCCAGGCGCGGTGGCTCACGTTT
GTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGTTCGAGACCAGCCTGGCCAGCATG
GTGAAACCCCGTCTCTACTAAAAATACAAAAGAAAATTAGCCGGGTGTGGTGGCACATGCCTGTAGTCCACCTA
CTCCAGTCTGGGCGACAGAGCGAGACTCTGTCTCAGAAAAAAGAGCAAGGAGGTGTTGAAAATGGGTTTCC
TGGCTGGGCGTGGTGGCTCACGCTTGTAAATCCCAGCACTTTGGGAAGCTGAGGTGGGCGGATCACTTGAGGTCAG
GAGTTTGAGACCAGCCTGGCCAACATGGTGAAACACCGTCTCCACTAAAAATAGAAAAATTAAGTGGGTGTGGTG
GAGGGCGCCTGTAATCCCAGCTAATCAGGAAGCTGAGACAGGAGGATCGCTTGAACCCAGGAGGCGGAGGTTGCA
GTGAGCCGAGATTGCTCCATTGCCTCCAGCCTGGGCGATAGAGTGAGACTCAGCCTCAAAAAAAAAAAAAAAAAA
AAAATTCGCCAGGTGTGGTGGTGTGCGCCTATAATCCCAGCTACTCAGGAGGCAGAGGCACAAGAATGGCTTGAA
TCACTTGAACTGGGAGGCAGAGGTTACAATGAGCCGAGATGGCACCCTGCCTCCAGCCTGGGCGACAGAGCG
AGACTCCGACTTCCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAAAGAGTGTAAAGATGTGATTATGTGGCAGGGG
GTAAGGGTTAAAAAGAAAACAAGAACAAGTTTTCTCTGCTTAGCCAGCTTACTTCAAGGACAGTTATAACACTG
AAAAGTCGAGGCCAAAGGAATGGGCTCCAGACAGCCTCCTCCGAGCAAAGTTGAAAAGAAAAATTCCTTTACTG
TCTCTCCTTTTCTGAACCATTAATATGACTGTTTGCCAATGGTTGTATTTAGTAAGATTTGTAGACTCTGTTTT
TCTTTTGACACAGCTGCAAGGCCAACAGCTGTGCAAGCCACAAGTTATGCTAAGTCAGCAGTTATGCTATAGAT
TACATGACCTGTGACTGTATCATTAAGTCTTTTGTGTTTGTCTGTGTAAGTTTGCCTATAAAAACCACACTCAGT
CTTTGTTCAATGGTCAGCTTTTCAGATACAAATCCACTGAGCCGGTGATACATAAATAAATCCTCTGTTTCCC
GT

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FIGURE 5245

MAPLHSSLGDRARLRPLILKKKKKKKKCKDVIMWQGV RVKKKTRTSFPLLSQLTSRTVITLKSRGQRNGLQTAS
SGAKLKRKIPLLSLLF

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FIGURE 5246

GTTAGAGCAGAGGAGGTCCCAGATACCAAGTGGCGCCTCCCAGGAAAGGCTGGGAGAAGAGGTGGCCTGGAGTAC
CCCGAGATCCCAGCAGCGCACACAGTGGAGGGATGAGGATGGATGGGTCCCTAACCCCTGATTTTGATGGGATGTG
TTCATGTCCTATCTCCTCTCCTGGACACATTAAGGGGTTGGGACAAGAAGAGACTCCTGTGAGATCAGCAGACCT
CGTGTTTAAGGAGAGAATGCCTGCCTGCAACACTCATGGAGAGGGACACTTCCTGGCCCCACCTGCTAAATACCT
CCAAACTCTGGGCAGGCGCCTGCATTCTCAACACAGGACTTCCCTTAACAGTTTCCGGATCAGTGACCACCACCA
CGTTCAGGTTTCTGAATGCAGACCCACCACGAGGGATGGATTCCACCCGCCCGCCCTGCTGCAGATACATGCGGC
ACAGCAGGCACGTGCCTGGAGAGAACAGCTCCTGAGCACAGCACCCCTTGGAGCCCTCACCCCGCTCACGATCCTC
ACCAAGTGCTGATGATGCCGTCTATGCTGCTGGCCTGAGACAGTATCCCAGCTACAACAGGACGACACCGGGTTCAG
GAATATGTGGCTATCACCTTGAGCACTGACAGTGGCCTTCCAGGCTAGTTGCCTTCCAAACGCAGGTAGCCGACC
TGCAGGAGGGCCTACAAACGGGCCCAGCAAGAGCTGGGCAACAGCTGGCTTGTGAAATGAGACACCTTGACCAAT
ATGCTTTGGGTGGACGGTCTCCTACATGTTTCAAGTGGAGGCCACCAGGAGCATCCATGAGCGGGGAAGGGGTCCAC
ACCCTTACATGGCAAGTTGATACGATGGGGTGCTTGGTGGATGGGCCATGGAGGTCCGTGAGCTGGAAGTGGGCA
CACGCCATCCCAGAGGGCTCAGGATGCCCCAGGAAGGAAGAAGGGCAACAGACTACACGATTGGACGTGTGTGG
TTGACTGGGATGAAGTTGGAGGGAGGGGCAGGGCCTTGAGGGGATTGGTACTGATCCCAGGGAGGAAGTGTGG
GGCTTCATGAACTAGGATGAAAGGAGGGCCCTGAGCCATGACAAGGGGCACATCCAGGATTTCCGCCACCCTGAA
TTTAGTAGAGCTAGTAGGCCCTGGTCGTCACTCTGGGCAGGGATGCCGTCAGCCTTGAGGGTCGCCACCCACCTG
TGTGTTGCCCTCTGTCTGGCAGGGAAACATACACCCCTTGTCTCACCACCAACCTTGCTTGTGTAGTCAGCAGG
GCTGGCCCTGCCCCAAGGACTCACTGCATGTACCCGGACCCCTAGGCCTGGCCTTTGCAGCATAGTTGGGAGCTT
CTGGATTCCATCTGCACCTGTGAGCCCCATGCTGGCTGTGCACTGCGCGGGCCTGAGACTGCTGGATACAATGTT
GGGCAACAACCTCAGCCAGCCTGATGGCAGCCTCAGAGGCTTACTCTAACCCATCCCAGAATAAATGGAGACTTCA
TGTTT

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FIGURE 5247A

GACCGTGAGGCCGAGCCGGGAGCGGGCGTCTTGCCGAGGCCCGGGCGGGGAGCAACGGCTACAGACGCCGC
GGGGCCAGGTTCGTTGAGGGTCGGCGGCGGGCGAGGAGCGCAGGGCGCTCGGGCCGGGGGCCGCCGGCGCCATGGG
CAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAACTGCAGGACGCCTTCAGCTCCATCGGCCAGAGCTG
CCACCTGGACCTGCCGAGATCGCTGTAGTGGGCGGCCAGAGCGCCGGCAAGAGCTCGGTGCTGGAGAACTTCGT
GGGCCGGGACTTCCTTCCCCGCGGTTTCAGGAATCGTCACCCGGCGGCCTCTCATTCTGCAGCTCATCTTCTCAA
AACAGAACATGCCGAGTTTTTGCAGTCAAGTCCAAAAAGTTTACAGACTTTGATGAAGTCCGGCAGGAGATTGA
AGCAGAGACCGACAGGGTCACGGGGACCAACAAAGGCATCTCCCCAGTGCCCATCAACCTTCGAGTCTACTCGCC
ACACGTGTTGAACTTGACCCTCATCGACCTCCCGGGTATCACCAAGGTGCCTGTGGGCGACCGACCTCCAGACAT
CGAGTACCAGATCAAGGACATGATCCTGCAGTTCATCAGCCGGGAGAGCAGCCTCATTCTGGCTGTACGCCCGC
CAACATGGACCTGGCCAACTCCGACGCCCTCAAGCTGGCCAAGGAAGTCGATCCCCAAGGCCTACGGACCATCGG
TGTCATCACCAAGCTTGACCTGATGGACGAGGGCACCGACGCCAGGGACGTCTTGAGAAACAAGTTGCTCCCGTT
GAGAAGAGGGCTACATTGGCGTGGTGAACCGCAGCCAGAAGGATATTGAGGGCAAGAAGGACATCCGTGCAGCACT
GGCAGCTGAGAGGAAGTTCTTCTCTCCACCCGGCCTACCGGCACATGGCCGACCGCATGGGCACGCCACATCT
GCAGAAGACGCTGAATCAGCAACTGACCAACCACATCCGGGAGTCGCTGCCGGCCCTACGTAGCAAACTACAGAG
CCAGCTGCTGTCCCTGGAGAAGGAGGTGGAGGAGTACAAGAACTTTCCGGCCGACGACCCCCACCCGCAAAACCAA
AGCCCTGCTGCAGATGGTCCAGCAGTTTGGGGTGGATTTTGAGAAGAGGATCGAGGGCTCAGGAGATCAGGTGGA
CACTCTGGAGCTCTCCGGGGGCGCCCGAATCAATCGCATCTTCCACGAGCGGTTCCCATTTGAGCTGGTGAAGAT
GGAGTTTGACGAGAAGGACTTACGACGGGAGATCAGCTATGCCATTAAGAACATCCATGGAGTCAGGACCGGGCT
TTTACCCCGGACTTGGCATTTCGAGGCCATTGTGAAAAAGCAGGTTCGTCAGCTGAAAGAGCCCTGTCTGAAATG
TGTCGACCTGGTTATCCAGGAGCTAATCAATACAGTTAGGCAGTGTACAGTAAGCTCAGTTCTTACCCCGGTT
GCGAGAGGAGACAGAGCGAATCGTCACCACTTACATCCGGGAACGGGAGGGGAGAACGAAGGACCAGATTCTTCT
GCTGATCGACATTGAGCAGTCTTACATCAACACGAACCATGAGGACTTCATCGGGTTTGCCAATGCCAGCAGAG
GAGCAGCAGCTGAACAAGAAGAGAGCCATCCCCAATCAGGGGGAGATCCTGGTGATCCGCAGGGGCTGGCTGAC
CATCAACAACATCAGCCTGATGAAAGCGGCTCCAAGGAGTACTGGTTTGTGCTGACTGCCGAGTCACTGTCTCTG
GTACAAGGATGAGGAGGAGAAAGAGAAGAAGTACATGCTGCCTCTGGACAACCTCAAGATCCGTGATGTGGAGAA
GGGCTTCATGTCCAACAAGCAGTCTTCGCCATCTTCAACACGGAGCAGAGAAACGCTCTACAAGGACCTGCGGCA
GATCGAGCTGGCCTGTGACTCCCAGGAAGACGTGGACAGCTGGAAGGCCTCGTTCTCCGAGCTGGCGCTTACCC
CGAGAAGGACACAGGCAGAAAACGAGGATGGGGCCAGGAGAACACCTTCTCCATGGACCCCCAACGAGCGGCA
GGTGGAGACCATTGCAACCTGGTGGACTCATACGTGGCCATCATCAACAAGTCCATCCGCGACCTCATGCCAAA
GACCATCATGCACCTCATGATCAACAATACGAAGGCCTTCATCCACCAGAGCTGCTGGCCTACCTATACTCCTC
GGCAGACCAGAGCAGCCTCATGGAGGAGTGGGCTGACCAGGCACAGCGGGCGGGACGACATGCTGCGCATGTACCA
TGCCCTCAAGGAGGCGCTCAACATCATCGGTGACATCAGCACCAGCACTGTGTCCACGCCTGTACCCCGCCTGT
CGATGACACCTGGCTCCAGAGCGCCAGCAGCCACAGCCCCACTCCACAGCGCCGACCGGTGTCCAGCATAACCC
CCCTGGCCGGCCCCCAGCAGTGAGGGGCCCACTCCAGGGCCCCCCTGATTCTGTTCCTGTTGGGGGCGAGCAGC
CTCCTTCTCGGCGCCCCCAATCCCATCCCGGCTGGACCCAGAGCGTGTGTTGCCAACAGTGACCTCTTCCAGC
CCCGCTCAGATCCCATCTCGGCCAGTTCCGATCCCCCAGGGATTCCCCCAGGAGTGCCAGCAGAAGACCCCC
TGCTGCGCCAGCCGGCCCACTTATCCGCCCAGCCGAGCCATCCCTGCTCGACTAGGCCTCGAGGGGGGCGTG
CTCTCGGGGGGGCTCACGCACCCGCGGCGCAGGAGCTTCAGTGGTCTGGGGCCCTCCGCCGCCCTATGCTGGG
ACCAGGCTCCAGTGGGCAGCCCTGGCCTCTTCTTAACGCTGGCCCCGGTCCAGGGCCGGCCCTGTGCTGGC
TGGACACCGCACTGCGCAAAGGGGCCCTGGAGCTCCAGGCAGGGGGCGCTGGGGTGTGCACTTTGGGGGATGGA
GTCTCAGGGTGGCAGAGGGGGGACCAGAACCCTTGACACCATCCTGAATGAGGGGTCCAGCCTGGGGGGGACTCT
ACCAAGGTCTTCTTGGGCTGGGAAAGCCCATGTAGGGCAGGCCTTCTATAAGTGCGGGCACCAAGGGCGCCTACA
TCCCCAGGCCTTGCTGGGGTGCAGGGGTATATCAACTTCCCATTAGCAGGAGCTCCCCAGCGGCAAGCCTGGCCC
AGTGGGCTCGGTAGTGGCCAGCTGGCAGGCCTGAGGTGTACATAGTCCTTCCCGGCCATATTAACCACACAGCCT
GAGCCTGGCCAGCCTCGGCTGCCAGAGGTGCCCTTTGCTAGGCCCGGAGCGGTTGGCCCGGGCGGCCTTGCCCT
ATTCTCTCCTCCTCCTCCTCCTGGGTCCCCCAGGGTGGCTGGGCTTGGGCTATGTGGGTGGTGGTGGCGGGGG
TCTTGGGGGCTCTCAGCTCCCGCCCATGCCCTCCTGATGGGTGGGCCAGGGCGGCCTCTCTCTGAGGAGACCT
CACCACTCCTCGCTCAGTTTGACCACTGTAAGTGCTGCATCTGTATTCTATTAATAAACTAAATAAAGGGA

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FIGURE 5247B

AGACGCTGCTGGTG

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[illegible]

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FIGURE 5249

MAAAAAVGPAGGAGSAVPGGAGPCATVSVFPGARLLTIGDANGEIQRHAEQQALRLEVRAGPDSAGIALYSHE
DVCVFKCSVSRETECSRVGKQSFIIITLGCNSVLIQFATPNDFCSFYNILKTCRGHTLERSVFSERTEESSAVQYF
QFYGYLSQQQNMMDYVRTGTYQRAILQNHTDFKDKIVLDVGC GSGILSFFAAQAGARKIYAVEASTMAQHAEVL
VKSNNLTDRIVVIPGKVEEVSLPEQVDIIISEPMGYMLFNERMLESYLHAKKYLKPSGNMFPTIGDVHLAPFTDE
QLYMEQFTKANFWYQPSFHGVDLSALRGAADVDEYFRQPVVDTFDIRILMAKSVKYTVNLFLEAKEGDLHRIEIPFK
FHMLHSGLVHGLAFWFDVAFIGSIMTVWLSTAPTEPLTHWYQVRCLFQSPLFAKAGDTLSGTCLLIANKRQSYDI
SIVAQVDQTGSKSSNLLDLKNPFFRYTGTPSPPPGSHYTSPSENMWNTGSTYNLSSGMAVAGMPTAYDLSSVIA
SGSSVGHNLIPLANTGIVNHTHSRMGSIMSTGIVQGSSGAQGSGGGGSTSAHYAVNSQFTMGGPAISMASPMSIP
TNTMHYGS

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FIGURE 5250

GGCACGAGGGGATGTTGCTGTCAGGTCTGAGTCGGTTGGAGTCTGACGGGTAGGCGAGACGCGCAGGCGCAGAGA
GCCCCAGCCACGCCGGCCAGGTGGCCTCAGCGAGGGATGCGGAGACGCCCCCTGAACGACCATGGCATCGGCCGA
CGAGCTGACCTTCCATGAATTTCGAGGAGGCCACTAATCTTCTGGCTGACACCCAGATGCAGCCACCACCAGCAG
AAGCGATCAGCTGACCCACACAAGGGCACGTGGCTGTGGCCGTGGGCTCAGGTGGCAGCTATGGAGCCGAGGATGA
GGTGGAGGAGGAGAGTGACAAGGCCGCGCTCCTGCAGGAGCAGCAGCAGCAGCAGCCGGGATTCTGGACCTT
CAGCTACTATCAGAGCTTCTTTGACGTGGACACCTCACAGGTCTGGACCGGATCAAAGGCTCACTGCTGCCCCG
GCCTGGCCACAACCTTTGTGCGGCACCATCTGCGGAATCGGCCGGATCTGTATGGCCCCCTTCTGGATCTGTGCCAC
GTTGGCCTTTGTCTGGCCGTCACCTGGCAACCTGACGCTGGTGCTGGCCAGAGGAGGGACCCCTCCATCCACTA
CAGCCCCCAGTTCCACAAGGTGACCGTGGCAGGCATCAGCATCTACTGCTATGCGTGGCTGGTGCCCCCTGGCCCT
GTGGGGCTTCTGCGGTGGCGCAAGGGTGTCCAGGAGCGCATGGGGCCCTACACCTTCTGGAGACTGTGTGCAT
CTACGGCTACTCCCTCTTTGTCTTCATCCCCATGGTGGTCTCTGTGGCTCATCCCTGTGCCTTGGCTGCAGTGGCT
CTTTGGGGCGCTGGCCCTGGGCCTGTGAGCCGCCGGGCTGGTATTACCCCTCTGGCCCGTGGTCCGTGAGGACAC
CAGGCTGGTGGCCACAGTGCTGCTGTCCGTGGTCTGCTGCTCCACGCCCTCCTGGCCATGGGCTGTAAGTTGTA
CTTCTTCCAGTCGCTGCCTCCGGAGAACGTGGCTCCTCCTCCCCAAATCACATCTCTGCCCTCAAACATCGCGCT
GTCCCTACCTTGCCGCAGTCCCTGGCCCCCTCCTAGGAAAGGCCCGGGTCCCACAGGCAACACCTAAGTGGACCA
ACCCCTCTGCCTGTCTGCCCCCAGACGATGACTGAAGGCTCCTTTGACACCTTGAGATGATTCTGCTACTTTC
CAGACTTTTCTTACAAAGCAAACACTTTTATTTTCTATGCAAAGGTGATTCAGAGAATTTATATAAAGGCGGGCG
AGGGGCAGCCGAGCAGGGAGCTTTGGGACAGGGCTGGGGCCCCCATATCCCCCGGGCCACCTGCTTTCCCTCC
TATGGCTCCCCTGGAACAGGAGGGAGAGCCAAGGGGGCGGCCCAGCCTGGACAGCGCCCGCTCCTGCCTGGGTGC
ACACACGGCGGGCCTGAGCTCCAGCATCTGAGTTTGGGGGTATGAGAAACAGGGGAGCAGAAGGAGAAGAAAAT
GCCTGTGCTGCAA

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FIGURE 5251

MASADELTFHEFEEATNLLADTPDAATTSRSDQLTPQGHVAVAVGSGGSYGAEDEVEEESDKAALLQEQQQQQQP
GFWTFSYYSFFDSDTSQVLDRIKGSLLPRPGHNFVRHHLNRNRPDLYGFFWICATLAFVLAVTGNTLVLAQRRD
PSIHYSPPQFHKVTVAGISYCYAWLVPLALWGFLRWKGVQERMGPYTFLETVCYGYSLFVFIIPMVVLWLIPVP
WLQWLFALALGLSAGLVFTLWPVVREDTRLVATVLLSVVLLHALLAMGCKLYFFQSLPPENVAPPPQITSLP
SNIALSPTLPQSLAPS

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FIGURE 5252

GAAGAGACTCCCGGGCTCTTAACGTCGGGTATCAGGAGTTTCTTCCCGGAGCAAGGACCCCCAAGACGGAAGAGG
ATGGCCGCGGCGGGCTCTGAGGAGATTTTGGTCCCGGCGCCGCGCAGAGGCGGGCGACGCGGTAGTGGCGAAGCCG
GGAGTGTGGGCGCGGGCTGGGGTCCTGGGCCCCGCGCGCTGCTCCGGGACTACGCCGAGGCCTGCAGGGACGCTTCG
GCGGAGGCTAGGGCCCCGGCGGGGCGCGCCGCTGTGTATGTGGGTCTGCTGGGCGGCGCGGCGGCCTGCTTCACG
CTGGCGCCCAGCGAGGGTGCCTTCGAGGAGGCGCTGCTGGAGGCGTCGGGGACCCCTCCTGCTGCTGGCGCCGGCC
ACCCGCAACGCGAGTCCGAAGCCTTCGTGCAGAGGCTGCTCTGGCTGCGGGGCCGTGGCCGCCTGCGCTACGTC
AACCTGGGGCTCTGCTCGCTGGTGTACGAGGCGCCCTTCGACGCCCAGGCCAGCCTCTACCAGGCGCGTTGCCGC
TACCTGCAGCCCCGCTGGACCGACTTCCCCGGCCGGGTCTTGGACGTGGGCTTCGTGGGTGCTGGTGGGTGCTG
GGGGCCTGGATGCGCGACTGCGACATCAACGACGACGAATTCCTGCACCTGCCGGCGCATTTGCGGGTGGTCGGG
CCCCAGCAGCTGCATTCCGAGACCAACGAGCGGCTCTTCGATGAGAAGTACAAGCCTGTCGTGCTCACCAGCGAT
CAGGTGGACCAGGCGCTGTGGGAGGAGCAGGTCTTGCAAGGAGAAGAAGGACAGGCTCGCCCTGAGCCAGGCC
CACTCGCTGGTGCAGGCGGAGGCCCGAGATGAAACCCTGAGGCCCGGAGTCCTGGCAAACCTGCTTGCCTGGGG
TGGTGCAGTTCTGAGTGTGCCTCACCTGCAGAACAGCTGAGACAGATGATGTGCAAAGTGTTTTCTACTGGATT
TGCACAAGTTTGGGGAGCCTTTCTGCCCCCGTCTTTGTTCTTTATTAGCTGAAGCTAATTCAGAGCCACCTGGG
TCCGGGAGTTGGGGACAGCAGAACGACTTGACACATGTTTCATCACTGGCAGAGCTGGTCATGAGCCTTTTATATA
AGCCTTTTTTCATCGGCCCTCAGAGGCCCTCCTTAAGGAGGTACCACATTGGTCAGCTGACTTGCAAACCTCTTCTA
AGGCCACTTAGATTTTCTTTTCAAGTTTGGGTGTGGCCTGGCATGGTGATGTCTGTAATCCCAGCAGTTTGCA
AACTGAGGCAAGAGAATCGCTTGAGGCCAGGAGTTTGAGGCCAGCTAGAGTGACATAGCAAGACTCCGATGCTAC
AAAAAAGAATAATAATAGTAATTAATAAATAAAATTTGAGCTG

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FIGURE 5253

MAAAALRRFWSRRRAEAGDAVVAKPGVWARLGSWARALLRDYAEACRDASAEARARPGRAAVYVGLLGAAACFT
LAPSEGAFEEALLEASGTLLLLAPATRNRESEAFVQRLLWLRGRGRLRYVNLGLCSLVYEAPFDAQASLYQARCR
YLQPRWTDFFGRVLDVGFVGRWWVLGAWMRDCDINDDEFLHLPAPHLRVVGPQQLHSETNERLFDEKYKPVVLTDD
QVDQALWEEQVLQKEKKDRLALSQAHSVLVQAEAPR

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FIGURE 5254A

CGCCGCGGTGCTGAGGGGGAGGGGAGCCGGCGAGCGCGCGCGCAGCGGGGGCGCGGGTGGCGCGCGTGTGTGTGA
AGGGGGGGCGGTGGCCGAGGCGGGCGGGCGCGCGCGCAGGCTTCCCCTCGTTTGGCGGGCGGCGGGCTTCTTT
GTTTCGTGAAGAGAAGCGAGACGCCATTCTGCCCCGGCCCCGCGCGGAGGGGGCGGGGGAGGCGCCGGGAAGTC
GACGGCGCCGGCGGCTCCTGCAGGAGGCCACTGTCTGCAGCTCCCCTGAAGATGTCCACTCCAGACCCACCCCTG
GGCGGAACTCCTCGGCCAGGTCTTCCCCGGGCCCTGGCCCTTCCCCTGGAGCCATGCTGGGCCCTAGCCCCGGGT
CCCTCGCCGGGCTCCGCCACAGCATGATGGGGCCAGCCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACC
CAGGGGCCTGGAGGGTACCCTCAGGACAACATGCACCAGATGCACAAGCCCATGGAGTCCAATGCATGAGAAGGGC
ATGTCGGACGACCCGCGCTACAACCAGATGAAAGGAATGGGGATGCGGTGAGGGGGCCATGCTGGGATGGGGCCC
CCGCCAGCCCCATGGACCAGCACTCCCAAGGTTACCCCTCGCCCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCA
GTTCCAGCCAGTGGCCCCGTCTTCGGGGCCCCAGATGTCTTCGGGGCCAGGAGGTGCCCCGCTGGATGGTGTGAC
CCCCAGGCCCTTGGGGCAGCAGAACCAGGGGCCCAACCCATTTAACCAGAACCAGCTGCACCAGCTCAGAGCTCAG
ATCATGGCCTACAAGATGCTGGCCAGGGGGCAGCCCCCTCCCCGACCACCTGCAGATGGCGGTGCAGGGCAAGCGG
CCGATGCCCCGGGATGCAGCAGCAGATGCCAACGCTACCTCCACCCTCGGTGTCCGCAACAGGACCCGGCCCTGGC
CCTGGCCCTGGCCCCGGCCCCGGGTCCCCGGCCCCGACCTCCAAATTACAGCAGGCCTCATGGTATGGGAGGGCCC
AACATGCCTCCCCAGGACCCCTCGGGCGTGCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAAGCCC
TGGCCTGAAGGACCCATGGCGAATGCTGCTGCCCCACGAGCACCCCTCAGAAGCTGATTCCCCCGCAGCCAACG
GGCCGCCCTTCCCCCGCGCCCCCTGCCGTCCCACCCGCGCCTCGCCCGTGATGCCACCGCAGACCCAGTCCCCC
GGGCAGCCGGCCAGCCCGCGCCCATGGTGCCACTGCACCAGAAGCAGAGCCGCATCACCCCATCCAGAAGCCG
CGGGGCTCGACCTGTGGAGATCCTGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCGAATTAG
GAACCTGAAAACCTTCCCGGGTCCCTGGCCGGGGATTTCGGAACCAAGCGACCATTGAGCTCAAGGCCCTCAGG
CTGCTGAACCTCCAGAGGAGCTGCGCCAGGAGGTGGTGGTGTGTCATGCGGAGGGACACAGCGCTGGAGACAGCC
CTCAATGCTAAGGCCTACAAGCGCAGCAAGCGCCAGTCCCTGCGCGAGGCCCCGCATCACTGAGAAGCTGGAGAAG
CAGCAGAAGATCGAGCAGGAGCGCAAGCGCCGCGCAGGAATACCTCAATAGCATTTCTCAGCATGCC
AAGGATTTCAAGGAATATCACAGATCCGTCACAGGCAAAATCCAGAAGCTGACCAAGGCAGTGGCCAGTACCAT
GCCAACACGGAGCGGGAGCAGAAGAAAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAA
GATGAGGAGGGGTACCGCAAGCTCATCGACCAGAAGAAGGACAAGCGCCTGGCCTACCTCTTGAGCAGACAGAC
GAGTACGTGGCTAACCTCACGGAGCTGGTGCGGCAGCACAAGGCTGCCAGGTGCCAAGGAGAAAAAGAAGAAA
AAGAAAAAGAAGAAGGCAGAAAATGCAGAAGGACAGACGCTGCCATTGGGCCGGATGGCGAGCCTCTGGACGAG
ACCAGCCAGATGAGCGACCTCCCGGTGAAGGTGATCCACGTGGAGAGTGGGAAGATCCTCACAGGCACAGATGCC
CCCAAAGCCGGGCAGCTGGAGGCTGGCTCGAGATGAACCCGGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAA
GAAAGTGGCTCAGAAGAAGAGGAAGAGGAGGAGGAAGAGCAGCCGCAGGCAGCACAGCCTCCACCCCTGCCC
GTGGAGGAGAAGAAGAAGATTCCAGATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAG
AATGCCAAGCAAGATGTCGATGATGAATATGGCGTGTCCAGGCCCTTGACGTGGCCTGCAGTCTACTATGCC
GTGGCCCATGCTGTCACTGAGAGAGTGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCTCAAACAGTACCAG
ATCAAAGGTTTGGAGTGGCTGGTGTCCCTGTACAACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTG
GGGAAGACCATCCAGACCATCGCGCTCATCAGTACCTCATGGAGCACAAACGCATCAATGGGCCCTTCCTCATC
ATCGTGCTCTCTCAACGCTGTCCAACCTGGGCGTACGAGTTTGACAAGTGGGCCCCCTCCGTGGTGAAGGTGTCT
TACAAGGGATCCCCAGCAGCAAGACGGGCCTTTGTCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACG
ACGTACGAGTACATCATCAAAGACAAGCACATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGT
CACCGCATGAAGAACCACCACTGCAAGCTGACGCGAGGTGCTCAACACGCACTATGTGGCACCCCGCGCCTGCTG
CTGACGGGCACACCGCTGCAGAACAAGCTTCCGAGCTCTGGGCGCTGCTCAACTTCTGCTGCCCCACCATCTTC
AAGAGCTGCAGCACCTTCGAGCAGTGGTTTAACGCACCCTTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAG
GAGGAAACCATTTCTATCATCCGGCGTCTCCACAAGTGCTGCGGCCCTTCTTGCTCCGACGACTCAAGAAGGAA
GTGAGGCCCAGTTGCCCGAAAAGGTGGAGTACGTATCAAGTGCGACATGTCTGCGCTGCAGCGAGTGTCTTAC
CGCCACATGCAGGCCAAGGGCGTGTGCTGACTGATGGCTCCGAGAAGGACAAGAAGGGCAAAGGCGGCACCAAG
ACCCTGATGAACACCATCATGCAGCTGCGGAAGATCTGCAACCACCCCTACATGTTCCAGCACATCGAGGAGTCC
TTTTCCGAGCACTTGGGGTTCACTGGCGGCATTGTCCAAGGGCTGGACCTGTACCGAGCCTCGGGTAAATTTGAG
CTTCTTGATAGAATTCTTCCCAAACCTCCGAGCAACCAACCACAAAGTGCTGCTGTTCTGCCAATGACCTCCCTC

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FIGURE 5254B

ATGACCATCATGGAAGATTACTTTGCGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAG
GACCGGGGCATGCTGCTGAAAACCTTCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCT
GGGGGGCTCGGCCTGAACCTCCAGTCGGCAGACACTGTGATCATTTTTGACAGCGACTGGAATCCTCACCAGGAC
CTGCAAGCGCAGGACCGAGCCCACCGCATCGGGCAGCAGAACGAGGTGCGTGTGCTCCGCCCTCTGCACCGTCAAC
AGCGTGAGGAGAAGATCCTAGCTGCAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATG
TTCGACCAGAAGTCTCCAGCCATGAGCGGCGCGCCTTCTGTCAGGCCATCCTGGAGCACGAGGAGCAGGATGAG
AGCAGACACTGCAGCACGGGCAGCGGCAGTGCCAGCTTCGCCCACACTGCCCCCTCCGCCAGCGGGCGTCAACCCC
GACTTGAGGAGCCACCTCTAAAGGAGGAAGACGAGGTGCCGACGACGAGACCGTCAACCAGATGATCGCCCCG
CACGAGGAGGAGTTTGATCTGTTTCATGCGCATGGACCTGGACCGCAGGCGCGAGGAGGCCGCAACCCCAAGCGG
AAGCCGCGCCTCATGGAGGAGGACGAGCTCCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACC
TGTGAGGAGGAGGAGGAGAAGATGTTCCGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTCACTG
ACGGAGAAGCAGTGCGTCAAGGCCATCGAGGAGGGCAGCTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAGAAA
TCATCACGGAAGCGCAAGCGAGACAGCGACGCCGGCTCCTCCACCCGACCACCAGCACCCGCAGCCGCGACAAG
GACGACGAGAGCAAGAAGCAGAAGAAGCGCGGGCGGCCGCTGCCGAGAACTCTCCCCTAACCCACCCAACTC
ACCAAGAAGATGAAGAAGATTGTGGATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTCAGCTCAGCGAG
GTCTTCATCCAGCTGCCCTCGCGAAAGGAGCTGCCCGAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAG
AAGATAAAGGAGCGCATTCGCAACCACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTCATGCTCCTGTGC
CAGAACGCACAGACCTTCAACCTGGAGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGCAGTCGGTCTTCACC
AGCGTGCGGCAGAAAATCGAGAAGGAGGATGACAGTGAAGGCGAGGAGAGTGAGGAGGAGGAAGAGGGCGAGGAG
GAAGGCTCCGAATCCGAATCTCGGTCCGTCAAAGTGAAGATCAAGCTTGCCCGGAAGGAGAAGGCACAGGACCGG
CTGAAGGGCGGCCGGCGGCCGAGCCGAGGGTCCCGAGCCAAGCCGGTCGTGAGTGACGATGACAGTGAGGAG
GAACAAGAGGAGGACCGCTCAGGAAGTGGCAGCGAAGAAGACTGAGCCCCGACATTCCAGTCTCGACCCCGAGCC
CCTCGTTCCAGAGCTGAGATGGCATAGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGAGTA
AAACTGTATAAACAAGAATCTTCCATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGACTGGCCCTGTC
CTGGCATCAGTAGCATCTGTAAACAGCATTAAGTGTCTTAAAGAGAGAGAGAGAATTCCGAATTGGGGAACACA
CGATACCTGTTTTTCTTTCCGTTGCTGGCAGTACTGTTGCGCCGAGTTTGAGTCACTGTAGTTAAGTGTGGA
TGCATGTGCGTCACCGTCCACTCCTCCTACTGTATTTATTGGACAGGTCAGACTCGCCGGGGGCCGCGAGGG
TATGTCAGTGTCAGTGATGTCAAACAGTAATAAATTAACCAACAACAAAACGCA

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FIGURE 5255

MSTPDPPLGGTPRPGPSPGPGSPGAMLGPSGPGSPGSAHSMMPSPGPPSAGHP IPTQGFGGYPQDNMHQMHKP
MESMHEKMSDDPRYNQMKGMGMRSGGHAGMGPPSPMDQHSQGYPSPLGGSEHASSPVFASGPPSSGPQMSSSGPG
GAPLDGADPQALGQQNRGPTPFNQNLHQLRAQIMAYKMLARGQPLPDHLQMAVQGRPMFPGMQQMP TLPPPSV
SATGPGPGPGPGPGPGPPNYSRPHGMGGPNMPPPGPSGVPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQ
KLIPPQPTGRPSAPPAPVPPAASPVMPPTQSPGQPAQAPAPMVPLHQKQSRITP IQKPRGLDPVEILQEREYRLQ
ARIAHRIQELENLPGLAGDLRTKATIELKALRLNLFQRQLRQEVVCMRRDTALETALNAKAYKRSKRQSLREA
RITEKLEKQQKIEQERKRRQKHQEYLSILQHAKDFKEYHRSVTGKIQKLTAVATYHANTEREQKKENERIEKE
RMRRLMAEDEEGYRKLIDQKKDKRLAYLLQQTDEYVANLTELVRQHKAQVAKEKKKKKKKKKAENAEGQTPAIG
PDGEPLDETSQMSDLPVKVIHVESGKILTGTDAPKAGQLEAWLEMNPGYEVAPRSDSEESGSEEEEEEEEEEQPQ
AAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDEYGVSQLARGLQSYAVAHAVTERVDKQSALMV
NGVLKQYQIKGLEWLVS LYNNNLNGILADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKW
APSVVKVSYKGS PAARRAFVPLRSGKFNVLLTTYEYI IKDKHILAKIRWKYMIVDEGHRMKNHHCKLTQVLNTH
YVAPRRLLLTGTP LQNKLP ELWALLN FLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEEETILIRRLHKVLRPF
LLRRLKKEVEAQLPEKVEYVIKCDMSALQVRVLRHMQAKGVLLTDGSEKDKKGKGGTKTLMNTIMQLRKICNHPY
MFQHIEESFSEHLGFTGGIVQGLDLYRASGKFELLDRIPLKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLR
LDGTTKAEDRGMLLKT FNPGSEYFIFLLSTRAGGLGLNLQSA DTVIIFDSDWNPHQDLQAQDRAHRIGQQNEVR
VRLRCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAF LQAILHEEQDES RHCSTGSGSASFAHTA
PPPAGVNPDL EEPPLKEEDEV PDET VNQMIARHEEEFDLFMRMDLDRRREEARNPKRKPRLMEEDELPSWIIKD
DAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEVRQKKSSSRKRKRDSDAGSSTPT
TSTRSRDKDDESKKQKKRGRPPAEKLSNPPNLT KMKKI VDAVIKYDSSSGRQLSEVFIQLPSRKELPEYYEL
IRKPVDFFKKIKERIRNHKYRSLNDEKDVMLLCQNAQTFNLEGLIYEDSIVLQSVFTSVRQKIEKEDDSEGEES
EEEEEEEEEGSESESRSVKVKIKLGRKEKAQDR LKGGRRRPSRGSRAKPVVSDDDSEEEQEEDRSGSGSEED

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FIGURE 5256A

GCCCCGAGTGCAATCGCGGGAAGCCAGGGTTTCCAGCTAGGACACAGCAGGTTCGTGATCCGGGTCGGGACACTGC
CTGGCAGAGGCTGCGAGCATGGGGCCCTGGGGCTGGAAATTGCGCTGGACCGTCGCCTTGCTCCTCGCCGCGGCG
GGGACTGCAGTGGGCGACAGATGCGAAAGAAACGAGTTCCAGTGCCAAGACGGGAAATGCATCTCCTACAAGTGG
GTCTGCGATGGCAGCGCTGAGTGCCAGGATGGCTCTGATGAGTCCCAGGAGACGTGCTTGTCTGTACCTGCAAA
TCCGGGGACTTCAGCTGTGGGGGCCGTGTCAACCGCTGCATTCCCTCAGTTCTGGAGGTGCGATGGCCAAGTGGAC
TGGCAACAACGGCTCAGACGAGCAAGGCTGTCCCCCAAGACGTGCTCCCAGGACGAGTTTCGCTGCCACGATGGG
AAGTGCACTCTCTCGGCAGTTTCGTCTGTGACTCAGACCGGGACTGCTTGGACGGCTCAGACGAGGCCTCTGCCCCG
GTGCTCACCTGTGGTCCCGCCAGCTTCCAGTGCAACAGCTCCACCTGCATCCCCAGCTGTGGGCCTGCGACAAC
GACCCCGACTGCGAAGATGGCTCGGATGAGTGGCCGACGCGCTGTAGGGGTCTTTACGTGTTCCAAGGGGACAGT
AGCCCTGCTCGGCCCTTCGAGTTCCACTGCCTAAGTGGCGAGTGATCCACTCCAGCTGGCGCTGTGATGGTGGC
CCCGACTGCAAGGACAAATCTGACGAGGAAAAGTGCCTGTGGCCACCTGTGCGCCTGACGAATTCAGTGCTCT
GATGGAACTGCATCCATGGCAGCCGGCAGTGTGACCGGGAATATGACTGCAAGGACATGAGCGATGAAGTTGGC
TGCGTTAATGTGACACTCTGCGAGGGACCCAACAAGTTCAAGTGTACAGCGGCGAATGCATCACCTGGACAAA
GTCTGCAACATGGCTAGAGACTGCCGGGACTGGTCAGATGAACCCATCAAAGAGTGGGGACCAACGAATGCTTG
GACAACAACGGCGGCTGTTCCACGTCTGCAATGACCTTAAGATCGGCTACGAGTGCCTGTGCCCCGACGGCTTC
CAGCTGGTGGCCAGCGAAGATGCGAAGATATCGATGAGTGTGAGGATCCCGACACCTGCAGCCAGCTCTGCGTG
AACCTGGAGGGTGGCTACAAGTGCCAGTGTGAGGAAGGCTTCCAGCTGGACCCCAACAGAGGCTGCAAGGCT
GTGGGCTCCATCGCCTACCTCTTCTTCCAAACGGGCACGAGGTGAGGAAGATGACGCTGAGCCAGCAATAGAATCTACTGGTCT
ACCAGCCTCATCCCCAACCTGAGGAACGTGGTCTGCTGTGACACGGAGGTGGCCAGCAATAGAATCTACTGGTCT
GACCTGTCCCAGAGAATGATCTGCAGCACCCAGCTTGACAGAGCCACGGCGTCTCTTCTATGACACCGTCTATC
AGCAGAGACATCCAGGCCCCGACGGGCTGGCTGTGGACTGGATCCACAGCAACATCTACTGGACCGACTCTGTC
CTGGGCACTGTCTCTGTTGCGGATACCAAGGGCGTGAAGAGGAAAACGTTATTAGGGGAGAACGGCTCCAAGCCA
AGGGCCATCGTGGTGGATCCTGTTCTATGGCTTCATGTACTGGACTGACTGGGGAACCTCCCGCCAAGATCAAGAAA
GGGGCCCTGAATGGTGGATCTACTCGCTGGTGAAGTGAACATTCAGTGGCCCAATGGCATCACCTTAGAT
CTCCTCAGTGGCCGCTCTACTGGGTTGACTCCAAACTTCACTCCATCTCAAGCATCGATGTCAACGGGGGCAAC
CGGAAGACCATCTTGGAGGATGAAAAGAGGCTGGCCACCCCTTCTCCTTGGCCGTCTTTGAGGACAAAAGTATTT
TGGACAGATATCATCAACGAAGCCATTTTTCAGTGCCAACCGCCTCACAGGTTCCGATGTCAACTGTTGGCTGAA
AACCTACTGTCCCAGAGGATATGGTTCTCTTCCACAACCTCACCCAGCCAAGAGGAGTGAACGGTGTGAGAGG
ACCACCTGAGCAATGGCGGCTGCCAGTATCTGTGCTTCCCTGCCCCGAGATCAACCCCACTCGCCCAAGTTT
ACCTGCGCCTGCCCCGACGGCATGCTGCTGGCCAGGGACATGAGGAGCTGCCTCACAGAGGCTGAGGCTGCAGTG
GCCACCCAGGAGACATCCACCGTCAGGCTAAAGGTGAGTCCACAGCCGTAAGGACACAGCACACAACCCCGA
CCTGTTCCCGACACCTCCCGGCTGCCTGGGGCCACCCCTGGGCTCACACGGTGGAGATAGTGACAATGTCTCAC
CAAGCTCTGGGCGACGTTGCTGGCAGAGGAAATGAGAAGAAGCCAGTAGCGTGAGGGCTCTGTCCATTGTCTC
CCCATCGTGCTCCTCGTCTTCTTTGCTGGGGTCTTCTTCTATGGAAGAACTGGCGGCTTAAGAACATCAAC
AGCATCAACTTTGACAACCCGCTCTATCAGAAGACCACAGAGGATGAGGTCCACATTTGCCACAACCCAGGACGGC
TACAGCTACCCCTCGAGACAGATGGTCAGTCTGGAGGATGACGTGGCGTGAACATCTGCCTGGAGTCCCGTCCCT
GCCCAGAACCCTTCTGAGACCTCGCCGGCCTTGTTTTATTCAAAGACAGAGAAGACCAAAGCATTGCCTGCCAG
AGCTTTGTTTTATATATTTATTCTGTTGGAGGACAGAACAGGCTTCGGACAGTGGCCATGCAATGGCTTGGGTTG
GGATTTTGGTTTCTTCTTCTCTGTTGAAGGATAAGAGAAACAGGCCCGGGGGGACAGGATGACACCTCCATTT
CTCTCCAGGAAGTTTGTAGTTTCTCTCCACCGTGACACAATCCTCAAACATGGAAGATGAAAGGGGAGGGGATGT
CAGGCCAGAGAAGCAAGTGGCTTTCAACACACAACAGCAGATGGCACCAACGGGACCCCTGGCCCTGCCTCAT
CCACCAATCTCTAAGCCAAACCCCTAAACTCAGGAGTCAACGTGTTTACCTCTTCTATGCAAGCCTTGCTAGACA
GCCAGGTTAGCCTTTGCCCTGTACCCCGAATCATGACCCACCCAGTGTCTTTCGAGGTGGGTTTGTACCTTCC
TTAAGCCAGGAAGGGATTCTATGGCGTCGGAATGATCTGGCTGAATCCGTGGTGGCACCGAGACCAAACCTCATT
CACCAAATGATGCCACTTCCAGAGGCAGAGCCTGAGTCACTGGTCAACCTTAATATTTTATTAAGTGCCTGAGAC
ACCCGTTTACCTTGGCCGTGAGGACACGTGGCCTGCACCCAGGTGTGGCTGTGAGGACACAGCCTGGTGGCCAT
CCTCCGACCCCTACCACTTCCATTCCCGTGGTCTCCTTGCACCTTCTCAGTTTCAGAGTTGTACACTGTGTACA
TTTGGCATTGTGTTATTATTTTGCACGTGTTTCTGTCTGTGTGTTGGGATGGGATCCAGGCCAGGGAAAGCC

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FIGURE 5256B

CGTGTC AATGAATGCCGGGGACAGAGAGGGGCAGGTTGACCGGGACTTCAAAGCCGTGATCGTGAATATCGAGAA
CTGCCATTGTCTGTCTTTATGTCCGCCACCTAGTGCTTCCACTTCTATGCAAATGCCCTCCAAGCCATTCACTTCC
CCAATCTTGTCTGTGATGGGTATGTGTTTAAAACATGCACGGTGAGGCCGGGCGCAGTGGCTCACGCCTGTAATC
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGTGAAAC
CCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGC
TGAGGCAGGAGAATGGTGTGAACCCGGGAAGCGGAGCTTGCA GTGAGCCGAGATTGCGCCACTGCAGTCCGCAGT
CTGGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAACAAAAAAACCATGCATGGTGCATCAGCAG
CCCATGGCCTCTGGCCAGGCATGGCGAGGCTGAGGTGGGAGGATGGTTTGAGCTCAGGCATTTGAGGCTGTCTGTG
AGCTATGATTATGCCACTGCTTTCCAGCCTGGGCAACATAGTAAGACCCCATCTCTTAAAAAATGAATTTGGCCA
GACACAGGTGCCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGCTGGATCACTTGAGTTCAGGAGTTGGAG
ACCAGGCCTGAGCAACAAAGCGAGATCCCATCTCTACAAAAACCAAAAAGTTAAAAATCAGCTGGGTACGGTGGC
ACGTGCCTGTGATCCCAGCTACTTTGGGAGGCTGAGGCAGGAGGATCGCCTGAGCCCAGGAGGTGGAGGTTGCAGT
GAGCCATGATCGAGCCACTGCACTCCAGCCTGGGCAACAGATGAAGACCCTATTTAGAAATACAACATATAAAAA
AATAAATAAATCCTCCAGTCTGGATCGTTTGACGGGACTTCAGGTTCTTTCTGAAATCGCCGTGTTACTGTTGCA
CTGATGTCCGGAGAGACAGTGACAGCCTCCGTGCACTCCCGCGTGAAGATGTCACAAGGGATTGGCAATTGTCC
CCAGGGACAAAACACTGTGTCCCCCCCAGTGCAGGGAACCGTGATAAGCCTTTCTGGTTTCGGAGCACGTAAATG
CGTCCCTGTACAGATAGTGGGGATTTTTTGTATGTTTGCACTTTGTATATTGGTTGAACTGTTATCACTTATA
TATATATATATACACACATATATATAAAATCTATTTATTTTGC AAACCCTGGTTGCTGTATTTGTTCACTGACT
ATTCTCGGGCCCTGTGTAGGGGGTTATTGCCTCTGAAATGCCTCTTCTTTATGTACAAAGATTATTTGCACGAA
CTGGACTGTGTGCAACGCTTTTTTGGGAGAATGATGTCCCGTTGTATGTATGAGTGGCTTCTGGGAGATGGGTGT
CACTTTTTTAAACCACTGTATAGAAGGTTTTTGTAGCCTGAATGTCTTACTGTGATCAATTAAATTTCTTAAATG

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FIGURE 5257

AGTCTGCGCGGCGCGGCCAGGCCCGGCCGACCGCGTCTCGGTCTTCGCGTCTGCCAGCCTGGCTGGCAGTCCGTC
TGTCCATCCCGCCGCGCGGGGCGAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGGCCCTCGACGCGAGTGAGTG
TCGTGGTTGGGGTGCTGGACCCAGAGTGCCTACCTTCGCTGCGCTGGGCTCAGTTTCCACATCTGCACAAATGGG
GGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGTGAGTCTTCAGGCGTGGATGCAGCCTGGGGGAAGCC
ATAGGGCGCTTTCACAGGCCTGGCCTTACCATGGCGGGAGGGAGACCGCATCTGAAGAGGAGTTTCTCCATCAT
CCCCTGCTTTGTCTTCGTGGAGTCGGTGTCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCACGGA
CACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCTACCCAGGGCCTGAGGC
TGCCAGCCGAGTGCCTCCTGCTCTTGTCTACGCACTGGTCACTGCCGGGCCACCCCTCACGATCCTGCTGGGAGA
GCTGGCGCGTGCCTTTTTCCCTGCACCACCTTCAGCCGTCCCAGTCACTCGGGGAGAGCACCATCGTGTCTGGGGC
CTGCTGCCGCTTCAGCCCCCAGTGCGGAGGCTGGTCCGCTTCCTGGGGGTCTACTCCTTCGGCCTCTTCACCAC
GACCATCTTCGCCAACGCGGGGCGAGGTGGTGACGGCAATCCACGCCACACTTCTGTCCGTGTGCCGCCCCAA
CTACAGGCCCTGGGCTGCCTGCCACCTTCTCCGATCGGCCAGGTCCCGACCGCTTGTCACTGACCAGGGTGC
CTGCGCTGGCAGTCCCAGCCTCGTGGCCGCCGCGCGCCGCGCTTCCCCTGCAAGGATGCGGCCCTCTGCGCCTA
CGCGCTACCTACACAGCGATGTACGTGACTCTCGTGTTCGCGTGAAGGGCTCCCGCCTGGTCAAACCTCGCT
CTGCTGGCCTTGCTGTGCCCCGCCCTTCTGGTGGGCGTGGTCCGCTGGCCGAGTACCAGAAACCACTGGTCCGA
CGTGTCTGGCTGGCTTCTGACAGGGGCGGCCATCGCCACCTTTTGGTCACCTGCGTTGTGCATAACTTTCAGAG
CCGGCCACCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCACCATGGATAGCCCCCTCGA
AAAGAACCCGAGGTCTGCAGGCCGCAATTCGACACCGGCACGGCTCACCCATCCAAGTCGCAGAACTGCGCCCCG
CGTGCCACCTGATCCCCAGCTGTGTCTCTCCAGGGCCCCAGCCATGTGTTCGTGCCCCGTGTGCCCCGTCT
CGATTGAGGTCTGAGCCGACGCCCTTGCCCCCTACCCCTGCCAGCGCCACCCCGAGCCAGGGCCCCCTCG
CCTTCTTCCCCTGGACCTGGGGGGCCAGGCGGGGGTGGTGGACGTGGCGGAAGTGTGCTGCTGCCACGCCCTG
CTGCGGGACCTGTACACCCTGAGTGGACTCTATCCCTCCCCCTTCCACCGGGACAACCTCAGCCCTTACCTGTTT
GCCAGCCGTGACCACCTGCTGTGAGGCCCCGACCAACCACCCAGAATCTGCCAGTCCCCACTTCTTCCCTGCCAC
GCGTGTGTGTGCGTGTGCCACGTGAGTGCCAAAGTCCCCTGCCCCCAAGCCAGCCAGCCAGACATTAGAAGA
TGGCTAGAAGGACATTTAGGAGACATCTGCCTCTCTGGCCCTCTGAGATATCCCAGTGGGCACAAATGGAAGGTG
CGCACTTGCCCCCTACTATTGCCCTTTTAAGGGCCAAAGCTTGACCCCATTGCCATTGGCTGGCTAATGAGAACC
CCTGGTTCTCAGAATTTTAACCAAAGGAGTTGGCTCCAACCAATGGGAGCCTTCCCCTCACTTCTTAGAATCCT
CCTGCAAGAGGGCAACTCCAGCCAGTGTTCAGCGACTGAACAGCCAATAGGAGCCCTTGGTTTCCAGAATTTCTA
GAGTGGGTGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGA
GGTCATTGTTTGTGATTGAGTCTTCTCTCAGAATCAGCGAGCCCAGCTGTAGGGTGGGGGCGAGGCTCCCCCATG
GCAGGGTCCCTGGGGTACCCCTTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCCTCTCCACCTCTCACCCACTCTCT
CCTAATCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGGTTTTGGGGTTCAGGGTGTGTGTCTCCCCCTTGCC
TGTGCCCAGGTCAATCCAAACCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTCTTCTTTTCTTTGGAAC
CTGCCCCGTGTTCTTCACTGCCCCCATGCCTCAGCCTCATACAGATGTGCCATCATGGGGGGCATGGGTGGAG
CAGAGGGGCTCCCTCACCCCGGGCAGGCAAAGGCAGTGGGTAGAGGAGGCACTGCCCCCTTCTGCCCCCTCC
TCATCTTTAATAAAGACCTGGCTTCTCATCTTTAATAAAGACCTGTTTGTAAACAG

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FIGURE 5258

ACTTAGAGGCGCCTGGTCGGGAAGGGCCTGGTCAGCTGCGTCCGGCGGAGGCAGCTGCTGACCCAGCTGTGGACT
GTGCCGGGGGCGGGGACGGAGGGGCAGGAGCCCTGGGCTCCCCGTGGCGGGGGCTGTATCATGGACCACCTCGG
GGCGTCCCTCTGGCCCCAGGTCTGGCTCCCTTTGTCTCCTGCTCGCTGGGGCCCGCTGGGCGCCCCCGCCTAACCT
CCCGGACCCCAAGTTCGAGAGCAAAGCGGCCTTGCTGGCGGGCCCGGGGGCCCGAAGAGCTTCTGTGCTTACACGA
GCGGTGGAGGACTTGGTGTGTTTCTGGGAGGAAGCGGCGAGCGCTGGGGTGGGCCCCGGGCAACTACAGCTTCTC
CTACCAGCTCGAGGATGAGCCATGGAAGCTGTGTGCGCTGCACCAGGCTCCACGGCTCGTGGTGCGGTGCGCTT
CTGGTGTTCGCTGCCTACAGCCGACACGTCGAGCTTCGTGCCCTTAGAGTTGCGCGTACACAGCAGCTCCGGCGC
TCCGCGATATCACCGTGTCTATCCACATCAATGAAGTAGTGCTCCTAGACGCCCCCGTGGGGCTGGTGGCGCGGT
GGCTGACGAGAGCGGCCACGTAGTGTGCGCTGGCTCCCGCCGCTGAGACACCCATGACGTCTCACATCCGCTA
CGAGGTGGACGTCTCGGCCGGCAACGGCGCAGGGAGCGTACAGAGGGTGGAGATCCTGGAGGGCCGCACCGAGTG
TGTGCTGAGCAACCTGCGGGGCCGACGCGCTACACCTTCGCCGTCCGCGCGCGTATGGCTGAGCCGAGCTTCGG
CGGCTTCTGGAGCGCCTGGTCGGAGCCTGTGTGCTGCTGACGCCCTAGCGACCTGGACCCCCCTCATCCTGACGCT
CTCCCTCATCCTCGTGGTCTATCCTGGTGTGCTGCTGACCGTGTCTGCGCTGCTCTCCACCGCCGGGGCTCTGAAGCA
GAAGATCTGGCCTGGCATCCCGAGCCCAGAGAGCGAGTTTGAAGGCCCTTTCACCACCCACAAGGGTAACCTTCCA
GCTGTGGCTGTACCAGAATGATGGCTGCCGTGTGGTGGAGCCCCTGACCCCCCTTCACGGAGGACCCACCTGCTTC
CCTGGAAGTCCTCTCAGAGCGCTGCTGGGGGACGATGCAGGCAGTGAGCCGGGGACAGATGATGAGGGCCCCCT
GCTGGAGCCAGTGGGCAGTGAGCATGCCAGGATACCTATCTGGTGTGAGCAAAATGGTTGCTGCCCCGGAACCC
GCCAGTGAGGACCTCCAGGGCCTGGTGGCAGTGTGGACATAGTGCCATGGATGAAGGCTCAGAAGCATCCTC
CTGCTCATCTGCTTTGGCCTCGAAGCCCAGCCCAGAGGGAGCCTCTGCTGCCAGCTTTGAGTACACTATCCTGGA
CCCCAGCTCCCAGCTCTTGCGTCCATGGACACTGTGCCCTGAGCTGCCCCCTACCCACCCACCTAAAGTACCT
GTACCTTGTGGTATCTGACTCTGGCATCTCAACTGACTACAGCTCAGGGGACTCCAGGGAGCCCCAAGGGGGCTT
ATCCGATGGCCCCCTACTCCAACCCTTATGAGAACAGCCTTATCCCAGCCGCTGAGCCTCTGCCCCCAGCTATGT
GGCTTGCTCTTAGGACACCAGGCTGCAGATGATCAGGGATCCAATATGACTCAGAGAACCAGTGCAGACTCAAGA
CTTATGGAACAGGGATGGCGAGGCCTCTCTCAGGAGCAGGGGCATTGCTGATTTTGTCTGCCCAATCCATCCTGC
TCAGGAAACCACAACCTTGCAGTATTTTTAAATATGTATAGTTTTTTTG

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FIGURE 5259

MDHLGASLWFPQVGS LCLLLAGAAWAPPPNLPDPKFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPG
NYSFSYQLEDEFPWKLRLHQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVG
LVARLADESGHVVLRLWLPPEPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGRTRYTFAVRARM
EPSFGGFWSAWSEPVSLLTSPDLPLILTSLILVILVLLTVLALLSHRRALKQKIWPGIPSESEFEGLEFTH
KGNFQLWLYQNDGCLWWSPTPFTEDPPASLEVLSERCWGTMQAVEPGTDDEGPLLEPVGSEHAQDTYLVLDKWL
LPRNPFPSEDLPGPGGSVDIVAMDEGSEASSCSSALASKPSPEGASAASF EYTILDPSSQLLRPWTLCPELPPTPP
HLKYLYLVVSDSGISTDYSSGDSQGAQGGLSDGPYSNPYENSLIPAAEPLPPSYVACS

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FIGURE 5260

ATTTTTCAGAGCCCTAGGAATCCGAGCTGACGGATCCCTGACAGGGGCGACTGACTCCTAGTTATCCCCCTAACC
CCTAGGGGCGCTTCAGCCCCAACCCCATCATGACATCTCCTCTGTGTCAGGGCGGGCCTCCGCCAACGCCCTGCCTCC
TCAGGACCAGGCTTCGACGCCCTCTTCCAGGGTCAAGGGCAGGGAGGCTTCGGGCAAACCCAGCCACCTCCGAGG
CAAGGGCACAGCCCAGGCGTGGACCCCAGGCCGTTCCAAGGGAGGATCCTTCCACAGAGGTGCAGGGAAGCCCTC
TGTGCACTCTCAGGTGGCTGAGTTACATAAAAAGATACAACCTGTTAGAGGGTGACCGGAAGGCTTTTTTTGAGAG
CTCTCAGTGGAACATCAAGAAGAACCAGGAGACCATCAGTCAGCTCCGCAAGGAGACTAAGGCACTGGAACATAAA
GCTGCTGGACCTGCTCAAGGGAGATGAGAAAAGTGGTCCAGGCAGTGATTTCGCGAATGGAAGTGGGAGAAGCCATA
CCTGAAGAACAGGACAGGACAGGCCCTGGAGCACCTAGACCACCGGCTGAGGGAGAAGGTGAAGCAGCAGAACGC
CCTGCGGCACCAAGGTGGTGTGCGGCAGAGGCGGCTGGAGGAGCTCCAGCTGCAGCACAGCCTGCGCCTTCTGGA
GATGGCGGAGGCGCAAAACAGACACACGGAGGTGGCCAAGACCATGCGGAACCTGGAGAACCCTGGAGAAGGC
CCAGATGAAGGCGCAGGAGGCCGAGCACATTACCAGCGTGTACCTGCAGCTCAAGGCCATCTAATGGACGAGAG
CCTCAACTTGGAGAACCGGCTGGACTCCATGGAGGCTGAGGTGGTGAAGGACCAAAACATGAGCTGGAGGCACTGCA
CGTGGTGAACCAAGAGGCCCTCAATGCCCCGGGACATTGCCAAGAACCAGCTGCAGTACCTAGAGGAGACCTTGGT
TCGAGAGCGCAAGAAGCGGGAACGCTACATAAGTGAGTGCAAGAAGCGCGCCGAGGAGAAGAACTGGAGAACGA
GCGCATGGAGCGCAAGACCCACCGCGAGCACCTGCTGCTACAGTCCGACGACACCATCCAGGACAGCCTGCATGC
CAAGGAGGAGGAGCTGCGGCAGCGCTGGAGCATGTACCAGATGGAGGTGATCTTTGGCAAGGTCAAGGACGCCAC
TGGCACTGACGAGACGCACTCGTTGGTGCAGCGGTTCTTGGCCCAGGGCGACACCTTCGCGCAGTTGGAGACGCT
CAAGAGCGAGAACGAGCAGACGTTGGTGAAGGTGAAGCAGGAGAAGCAACAACCTGCAGCGGGAGCTGGAAGACCT
CAAGTACTCGGGGGAGGCCACGCTGGTGAGCCAGCAGAACTGCAAGCCGAGGCGCAGGAGCGTCTCAAGAAGGA
GGAGCGGCGGCACGCCGAGGCCAAGGACCAGCTGGAGCGCGCTTGCAGGCGATGCAAGTGGCCAAGGACAGCCT
GGAGCACCTGGCCAGCAAGCTGATCCACATCACTGTGGAGGACGGCCGCTTCGCGGGAAAGGAGCTGGATCCCCA
GGCAGATAACTATGTGCCAAACCTGCTGGGCCCTCGTGGAGGAAAAGCTGCTGAACTGCAGGCGCAGCTCCAGGG
CCACGACGTGCAGGAGATGCTGTGCCACATCGCTAACCGCGAGTTCCTCGCCAGCTTAGAGGGAAGGCTGCCCGA
ATACAACACCCGCATCGCCCTGCCCTTGCCACTTCCAAGGACAAGTTTTTTGACGAAGAGAGTGAGGAGGAGGA
CAACGAGGTAGTGACCCGCGCATCACTCAAGATCCGTTCCAGAAATTAATCGAAAGTCACAAGAAGCACCGTCG
CTCTCGGAGGTCTTAGACTCGTCTGACACCCACCAGGCGGCCCCCTTCGGAGCCCCGATCCCTCCGGGTCTAG
CGCAGGCCCCACGGGGCCCCCTTCAGGGGCTGAACGCGGCCCGGACCGGGAACGAGGCGGCCAGCGGCGCCCCGA
GGGGAGGAAGGGGCCGGGCCAGACGTTCCACAGTAAATCTCCCCAGCTGGGTCCGCCCCGGCCTCAGAGTTGCG
CAATAAATGTTACCGACCATG

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FIGURE 5261

GCTGCGCCGCCATTAAAGAGCTAGCCCTCAGAACTATCCTCTCTAAGGTTTCACAGTCCTGCCCAAGATGGCCGTC
TCGGCTCTGGCACCGCCCCCACTCCTGCCTCTCCCAACATGGCGACCCTGAGTCTCCGTTCCCGGTGCGGAACGT
ACGACCGGAAGTGACGGGGTCCAGAAATTTCCGCTTTCTTTCTGTCAGCAGGAACCGCGGTGCTGGACAAGAGGG
GTGCGGTGGATACTGACCTTTGCTCCGGCCTCGTCGTGAAGACACAGCGCATCTCCCCGTGTAGGCTTCTCTCC
ACAGAACCCGTTTCGGGCCTCAGAGCGTCTGGTGAGATGCTGTTGCCGCTGCTGCTGCTGCTACCCATGTGCTGG
GCCGTGGAGGTCAAGAGGCCCCGGGGCGTCTCCCTCACCAATCATCACTTCTACGATGAGTCCAAGCCTTTCACC
TGCCTGGACGGTTTCGGCCACCATCCCATTGATCAGGTCAACGATGACTATTGCGACTGCAAGATGGCTCTGAC
GAGCCAGGCACGGCTGCCTGTCTAATGGCAGCTTCCACTGCACCAACACTGGCTATAAGCCCCCTGTATATCCCC
TCCAACCGGGTCAACGATGGTGTGTTGTGACTGCTGCGATGGAACAGACGAGTACAACAGCGGCGTCATCTGTGAG
AACACCTCAGAGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAGATGGCCGAGGTCAACCGCGAAGGGTTCC
GTCTGAAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTGAGCTACAGG
CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGAGAGAG
AGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCCAACAGGAGCAGGAGCTGG
CGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGCTGCAGACTCACCCGG
AGCTGGACACAGATGGGGATGGGGCGTTGTGAGAAGCGAAGCTCAGGCCCTCCTCAGTGGGGACACACAGACAG
ACGCCACCTCTTTCTACGACCGCGTCTGGGCCGCCATCAGGGACAAGTACCGGTCCGAGGCACTGCCCCACCGACC
TTCCAGCAGCTTCTGCCCTGACTTGACGGAGCCCAAGGAGGAGCAGCCGCCAGTGCCCTCGTCCGCCACAGAGG
AGGAGGAGGAGGAGGAGGAGGAGGAAGAAGAGGCTGAAGAAGAGGAGGAGGAGGAGGATTCCGAGGTGCAGG
GGGAGCAGCCCAAGGAGGCCCCACCGCCACTGTACCCCCGAGCCGGCCAGCCCTGCTGAGGAAGACAAAATGC
CGCCCTACGACGAGCAGCAGCGAGGCTTCATCGATGCTGCCAGGAGGCCCGCAACAAGTTCGAGGAGGCCGAGC
GGTCTGCTGAAGGACATGGAGGATCCATCAGGAACCTGGAGCAAGAGATTCTTTTGACTTTGGCCCCAACGGGG
AGTTTGCTTACCTGTACAGCCAGTGCTACGAGCTCACCACCAACGAATACGTCTACCGCCTCTGCCCTTCAAGC
TTGTCTCGCAGAAACCCAACTCGGGGGCTCTCCACACAGCCTTGGCACCTGGGGCTCATGGATTGGCCCCGACC
ACGACAAGTTCAGTGCCATGAAGTATGAGCAAGGCACGGGTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGC
GCCTCCTGTGCGGGAAGAGACCATGGTGACCAGCACCACAGAGCCCAGTCGCTGCGAGTACCTCATGGAGCTGA
TGACGCCAGCCGCTTGCCCGGAGCCACCGCTGAAGCACCACAGAGCCATGACGAGCTCTAGCTGGATG
GGCGCAGAGGTGGGCGGGGAGGTGGAGTCTCGTCGGCTGCCCCAGCAAGGGGAGGCGGGCCCTGAGGAAGA
TGGACCCACATGGCCACTCTATCAACCTGTGTCCCCATGTTCCCTGCTTTTTTTGTTTTTTTGAGGTGGAG
TCTCACTCTTTGGCCCAGGCTGGAGTGCACTGATGCGACCTCAGCTGACTGCAACCTCTACCTCCCGGGTTCAAA
CAATTGTCTTGTCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCATGCCTGGCTAATTTTTTAGTAG
AGATGGGGTTTCACCATGTTGGCCTGGATGGTCTCGAACTCCTGACCTCAGATGATCCACCTGCCTTGGCCTCCC
AAAGTGCTGGGATTACAGGCATGAGCCACCACACCCGGCCATCTCCTGCCTTTTTTTTTTTTGGATGGAGTTTCAC
TCTTGTGCGGAGATCATGCTACTGCACTCTCCAGCCTGGGCTACAGAGTGAGACTCTCAAAAAAAAAAATAAT
AATAATAAGAGAAAAATAGACAAGGTCTCCAGGCTGGTCAACTCCTGGCCTCAAATGATCCTCCACCTCAGCCTC
CCAAGCAGCCGGGACTACAGGCAACATCACCATGTCCAGCTGTCCCCAGCTTTCTAATCTGGTCTTTCTCTTGC
CCCAGAACCTCAAGAAGGCATGAAGCCAGCCCTGCAGTGCCGTCCACCCGCCCTCTGGGCCTGCCTGTGGCTC
TGTTGCCCTCCTCTGTGGCGGACGACCTTTGTGGGGCTTCGTGCCCTGCTCTGGGGCCAGGCGGGGCTGGTCC
ACATTCCAGGCCCAACAGCCTTCAAAGATGGGTAAAGGAGCTTGCCCTCCTGGGGCCCCACCTTGGTGACT
CGCCCCACACCCCAAGCCTGTCCCTGCCACCCCTCCTAGTGGGGACTAGTGAATGACTTGACCTGTGACCTCA
ATACAATAAATGTGATCCCCCACC

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[illegible]

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FIGURE 5263

MGRRKSKRKPPPKKMTGTLETQFTCPFCNHEKSCDVKMDRARNTGVISCTVCLEEFQTPITYLSEPVDVYSDWI
DACEAANQ

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FIGURE 5264

TTTCTGCCCCGTGGACACCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGCTCTAAGTCAGAGT
CTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACTGATGAGAGCCTGA
GGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG
GCTTTGGGTTTGTACGTATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATG
GAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAAAA
AGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTGAACAGTATGGAAAAA
TTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACC
ATGACTCCGTGGATAAGACTGTCATTTCAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCC
TGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCGGAACTTTGGTGGTGGTC
GTGGAGGTGGTTTCGGTGGGAATGACAACCTTCGGTCGTGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGTGGCA
GCCATGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCAATTTTGGAG
GTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATT
TTGGAGGCAGAAGCTCTGGCCCCTATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACCAAGTGGCTATGG
CGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAG
AGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAATAGATTTGTGAACCTCAGCCAAGCACAGTGGTGGCAGGGCC
TAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTG
ACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAACGT
AGATTTCTTTTTGCACCCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGATGCTGAATAAATGTCTTTT
TTTT

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FIGURE 5265

MSKSESPKEPEQLRKLF IGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTKRSRGFGFVTYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKTVIQKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGSGNFGGGRGGGF GGNDNFGRGGNFSGR
GGFGGSHGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPR
NQVAMAVPAAAVAMAVAEDFN

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FIGURE 5266

CTCTTTCCCTTCAGTGTGCCACTGAAGATCCTGGTGTGCGCATGGGCCGCCGCCCGCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTGCAATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTCTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCCT
CTGAAGCCCTGGAGGCTGCCCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTCATCCGCATCAACAAGATGTCGTCCTGTGCTGGGGCTGACAGGCTCC
AAACAGGAATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCGTGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
CTCTGGACAAGTGGTGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTCACCAATAAA
TTCTACTT

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FIGURE 5267

CTCTTGGCGAGACGCGCGCGTTCGGGGTTTAAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCGGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCCTTCGGCACCAACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGCTA
CCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGCTGGGCAAGGAGATCAACAACCCAGA
GTCEGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCTTACAAGAACCCGGGCGCTGGTCCCTGGACATCGTTGAGGACCTGAGGCTCATCAACAC
ACAGGCCATCTTTGCCAAGTGCCTGGGATGATCATTCTGGGCGGGGGCGTGGTCAAGCACCATTTGCCAATGC
CAACCTCATGCGGAACGGGGCCGACTACGCTGTTTACATCAACACAGCCCAGGAGTTTGATGGCTCTGACTCAGG
TGCCCGACCAGACGAGGCTGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGC
CTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGA
GGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCCCTCCCC
TACTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 5268

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRVQQVNAMEKKLE
PLSQDEQHADLTQSRRLTSCITIFLGYSNLISGIRETIRYLVQHNMVVDVLVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVEQNTGKWTSPKMIARLGKEINNPESVYYWAQ
KNHIPVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEDLRLINTQAIFAKCTGMIILGGGVVKHHIANANLMRNGA
DYAVYINTAQEFDGSDSGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFAQKMDAFMHEKNED

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FIGURE 5269

CTCTTGCGGAGACGCGCGCTCGGGGTTTAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGCTA
CCTTGTGCAGCACAAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTTCTGGACCAGATGGTGTGGA
GCAGAACACAGAGGGTGTAAGTGAGCGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCTTACAAGAACCCGGGCCTGGTCCTGGACATCGTTGAGGCCAGGAGTTTGATGGCTC
TGACTCAGGTGCCCCGACCAGACGAGGCTGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTA
TGCTGACGCCTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGA
GAAGAACGAGGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAG
CCCCCTCCCCTACTTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 5270

CTCTTGCGGAGACGCGCGCTCGGGGTTTAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCAACGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTGCTA
CCTTGTCAGCACAAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCCCTACAAGAACCCGGGCCTGGTCCTGGACATCGTTGAGGGTGCCCGACCAGACGAGGC
TGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGCCTCCCTGGTCTTCCCCCT
GCTTGTTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGAGGACTGAGCGGCTGCGGT
CCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCTCCCTACTTTTGGTCAGCTAC
GTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5271

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRAVQQVNAMEKKLE
PLSQDEQDQHADLTQSRRLTSCITIFLGYSNLISGIRETIRYLVOHNMVDVLVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVEQNTEGVKWTPSKMIARLGKEINNPEVYYWAQ
KNHIPVVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFA
QKMDAFMHEKNED

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FIGURE 5272

CCAGCAGGGAGCTGGGAGCTGGGGGAAACGACGCCAGGAAAGCTATCGCGCCAGAGAGGGCGACGGGGGCTCGGG
AAGCCTGACAGGGCTTTTTCGCACAGCTGCCGGCTGGCTGCTACCCGCCCGCGCCAGCCCCGAGAACGCGCGAC
CAGGCACCCAGTCCGGTCACCGCAGCGGAGAGCTCGCCGCTCGCTGCAGCGAGGCCCGGAGCGGGCCCCGAGGGA
CCCTCCCCAGACCGCTGGGCCGCCCGGATGTGCACTAAAATGGAACAGCCCTTCTACCACGACGACTCATACAC
AGCTACGGGATACGGCCGGGGCCCCTGGTGGCCTCTCTCTACACGACTACAAACTCCTGAAACCGAGCCTGGCGGT
CAACCTGGCCGACCCCTACCGGAGTCTCAAAGCGCCTGGGGCTCGCGGACCCGGGCCAGAGGGCGGGCGGTGGCGG
CAGCTACTTTTCTGGTCAGGGCTCGGACACCGGCGCGTCTCTCAAGCTCGCCTCTTCGGAGCTGGAACGCCTGAT
TGTCCTCCCAACAGCAACGGCGTGATCACGACGACGCTACACCCCCGGGACAGTACTTTTACCCCCGCGGGGGTGG
CAGCGGTGGAGGTGCAGGGGGCGCAGGGGGCGGCGTCAACGAGGAGCAGGAGGGCTTCGCCGACGGCTTTGTCAA
AGCCCTGGACGATCTGCACAAGATGAACCACGTGACACCCCCAACGTGTCCCTGGGCGCTACCGGGGGGGCCCCC
GGCTGGGCCCCGGGGCGTCTACGCCGGCCCCGGAGCCACCTCCCGTTTACACCAACCTCAGCAGCTACTCCCCAGC
CTCTGCGTCTCTCGGGAGGCGCCGGGGCTGCCGTGGGACCGGGAGCTCGTACCCGACGACCACCATCAGCTACCT
CCCACACGCGCCGCCCTTCGCCGGTGGCCACCCGGCGCAGCTGGGCTTGGGCCGCGGCGCCTCCACCTTCAAGGA
GGAACCGCAGACCGTGCCGGAGGCGCGCAGCCGGGACGCCACGCCCGCGGTGTCCCCCATCAACATGGAAGACCA
AGAGCGCATCAAAGTGGAGCGCAAGCGGCTGCGGAACCGGCTGGCGGCCACCAAGTGCCGGAAGCGGAAGCTGGA
GCGCATCGCGCGCCTGGAGGACAAGGTGAAGACGCTCAAGGCCGAGAACGCGGGGCTGTGAGTACCGCCGGCCT
CCTCCGGGAGCAGGTGGCCAGCTCAAACAGAAGGTGATGACCCACGTCAGCAACGGCTGTCAGCTGCTGCTTGG
GGTCAAGGGACACGCCTTCTGAACGTCCCTGCCCTTTACGGACACCCCTCGCTTGGACGGCTGGGCACACGC
CTCCCACTGGGGTCCAGGGAGCAGGCGGTGGGCACCCACCTGGGACCTAGGGGCGCCGCAAACCACACTGGACT
CCGGCCCCCTACCTGCGCCAGTCCTTCCACCTCGACGTTTACAAGCCCCCTTCCACTTTTTTTTGTATGT
TTTTTTCTGCTGGAACAGACTCGATTATTAATATAATATATTTGTGTATTTAACAGGGAGGGGAAGAGG
GGGCGATCGCGGCGGAGCTGGCCCCGCGCCTGGTACTCAAGCCCGCGGGGACATTGGGAAGGGGACCCCCGCC
CCTGCCCTCCCTCTCTGCACCGTACTGTGAAAAGAAACACGCACTTAGTCTCTAAAGAGTTTATTTTAAGACG
TGTTTGTGTTGTGTGTTGTTCTTTTATTGAATCTATTTAAGTAAAAAAAATTGGTTCCTTTATTAA

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FIGURE 5273

MCTKMEQPFYHDDSYTATGYGRAPGGLSLHDYKLLKPSLAVNLADPYRSLKAPGARGPGPEGGGGGSYFSGQGSD
TGASLKLASSELERLIVPNSNGVITTTPTPPGQYFYPRGGGSGGGAGGAGGGVTEEQEGFADGFVKALDDLHKMN
HVTPPNVSLGATGGPPAGPGGVYAGPEPPPPVYTNLSSYSPASASSGGAGAAVGTGSSYPTTISYLPHAPPFAGG
HPAQLGLGRGASTFKEEPQTVPEARSRDATPPVSPINMEDQERIKVERKRLRNRLAATKCRKRKLERIARLEDKV
KTLKAENAGLSSTAGLLREQVAQLKQKVMTHVSNGCQLLLGVKGHAF

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FIGURE 5274

CGCGGCCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGCCTTTGCCCA
CGCAGCTTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCACAGCGGTGG
TTGATGGCGCCTTCAAAGAGGTGAAGCTGTGCGACTACAAAGGGAAGTACGTGGTCCTCTTTTCTACCCCTCTGG
ACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTTACGCAACCGTGCAGAGGACTTCCGCAAGCTGGGCTGTG
AAGTGCTGGGCGTCTCGGTGGACTCTCAGTTTACCCACCTGGCTTGGATCAACACCCCCCGGAAAGAGGGAGGCT
TGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGCTGAGGATTACGGCGTGCTGAAAACAG
ATGAGGGCATTGCCTACAGGGGCTCTTTATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTTAATGATT
TGCCTGTGGGACGCTCCGTGGATGAGGCTCTGCGGCTGGTCCAGGCCTTCCAGTACACAGACGAGCATGGGGAAG
TTTGTCCCGCTGGCTGGAAGCCTGGCAGTGACACGATTAAGCCCAACGTGGATGACAGCAAGGAATATTTCTCCA
AACACAATTAGGCTGGCTAACGGATAGTGAGCTTGTGCCCCCTGCCTAGGTGCCTGTGCTGGGTGTCCACCTGTGC
CCCCACCTGGGTGCCCTATGCTGACCCAGGAAAGGCCAGACCTGCCCCCTCCAACTCCACAGTATGGGACCCTGG
AGGGCTAGGCCAAGGCCTTCTCATGCCTCCACCTAGAAGCTGAATAGTGACGCCCTCCCCCAAGCCCACCCAGCC
GCACACAGGCCTAGAGGTAACCAATAAAGTATTAGGG

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FIGURE 5275

MASGNARIGKPAPDFKATAVVDGAFKEVKLSDYKGKYVVLFFYP LDFTFVCPTEIIAF SNRAEDFRKLGCEVLGV
SVDSQFTHLAWINTPRKEGGLGPLNIPLLADVTRRLSEDYGVLKTDEGIAYRGLFIIDGKGVLRQITVNDLPVGR
SVDEALRLVQAFQYTDEHGEVCPAGWKPGSDTIKPNVDDSKYF SKHN

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FIGURE 5276

AAAAGGCTTCGCGGCCCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGC
CTTTGCCCCACGCAGCTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAAGCCAGCCCCTGACTTCAAGGCCA
CAGCGGTGGTTGATGGCGCCTTCAAAGAGGTGAAGCTGTCGGACTACAAAGGGAAGTACGTGGTCCTCTTTTTCT
ACCCCTCTGGACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTCAGCAACCGTGCAGAGGACTTCCGCAAGC
TGGGCTGTGAAGTGCTGGGCGTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCCGGAAAG
AGGGAGGCTTGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGC
TGAAAACAGATGAGGGCATTGCCTACAGGTACTGTGGGACCCCTCAGCCCGGCTCAGGGAGCGCCCTGCCCCCAT
TCCTGTGATGCTGGGACCACTCCTGTACAATGTCTTCTCTGCCCCAGCCCTGTGGCTAGCAGCGGGTGGTTGGT
AGTCCCTTCCTTGTCTCTGGCAGTGGGAGCTATCAGCTCCTCACTGGGAACCCTGATGTCTTCAGGGGCCTCTTT
ATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTTAATGATTGCTTGGGACGCTCCG

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FIGURE 5277

CCATGGCAGGTCGCTCCTGCAGTATTAGTTCTTGCAGCTGGTGGCGGGCTGAGGCGGCATGGATCTCAGCGAG
CTGGAGAGAGACAATACAGGCCGCTGTCGCCTGAGTTCGCCTGTGCCCCGGGTGTGCCGCAAGGAGCCTTGCGTC
CTGGGCGTCGATGAGGCGGGCAGGGGCCCCGTGCTGGGCCCCATGGTCTACGCCATCTGTTATTGTCCCCTGCCT
CGCCTGGCAGATCTGGAGGCGCTGAAAGTGGCAGACTCAAAGACCCATTATTGGAGAGCGAGCGGGAAAGGCTGTTT
GCGAAAATGGAGGACACGGACTTTGTCGGCTGGGCGCTGGATGTGCTGTCTCCAAACCTCATCTCTACCAGCATG
CTTGGGCGGGTCAAATACAACCTGAACCTCCCTGTACATGATACAGCCACTGGGCTTATACAGTATGCATTGGAC
CAGGGCGTGAACGTCACCCAGGTATTCGTGGACACCGTAGGGATGCCAGAGACATAACCAGGCGCAGCTGCAGCAA
AGTTTTCCCGGGATTGAGGTGACGGTCAAGGCCAAAGCAGATGCCCTCTACCCGGTGGTTAGTGCTGCCAGCATC
TGTGCCAAGGTGGCCCCGGGACCAGGCCGTGAAGAAATGGCAGTTCTGTGGAGAACTGCAGGACTTGGATACTGAT
TATGGCTCAGGCTACCCCAATGATCCCAAGACAAAAGCGTGGTTGAAGGAGCACGTGGAGCCTGTGTTTCGGCTTC
CCCCAGTTTGTCCGGTTCAGCTGGCGCACGGCCCAGACCATCCTGGAGAAAGAGGCGGAAGATGTTATATGGGAG
GACTCAGCATCCGAGAATCAGGAGGGACTCAGGAAGATCACATCCTACTTCCTCAATGAAGGGTCCCAAGCCCCGT
CCCCGTTCTTCCCACCGATATTTCTGGAACGCGGCCTGGAGTCAGCAACCAGCCTCTAGCAGCTGCCTCTACGC
GCTCTACCTGCTTCCCCAACCAGACATTAAAATTGTTTAAGGAG

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FIGURE 5278

MDLSELERDNTGRCRLSSPVPVAVCRKEPCVLGVDEAGRGPVLGPMVYAICYCPLPRLADLEALKVADSKTLLESE
RERLFAKMEDTDFVGWALDVLSPNLISTSM LGRVKYNLSLSHDTATGLIQYALDQGVNVTQVFVDTVGMPETYQ
AQLQQSFPGIEVTVKAKADALYPVVSAAASICAKVARQAVKKWQFVEKLQDLDTDYGSGYPNDPKTKAWLKEHVE
PVFGFPQFVRFSWRTAQ TILEKEAEDVIWEDSASENQEGLRKITSYFLNEGSQARPRSSHRYFLERGLESATSL

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FIGURE 5279

CTGGAAGGAGTCATGGCGGATGGTCAGGTGGCGGAAGTCTGCTCCGGCGGGCTGGAGGCGTCTGATGGCGGCCTG
GACAGCGCCGAGTTGGCGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTCATCGAGGCTGAAC TTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCCCGTGTGTTTCGAAGCATTCCCCAGAGGGCCTGGCCCCAGAGCGAGCTTATGCGA
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTGCGGTGGACAAGAGTGC GGCTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGGCGGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGA CTCTGAAG
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGGCGGGACCGGCCCTTCAAGCCCTACAACCTCTTGGCCCCACGGTGTCTCTCCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCCAGTTCCGACAGATCTTCTTGAGATGGGGTTTACCGAGATG
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAACCTTGACGCCCTCTTCCAGCCCCAGCAGCACCCAGCCCGT
GACCAGCACGACACCTTCTTCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCCGAAA
AACCTACTGCGAACCACACCATCAGCCAGCGCCCGTGCCTCTACCGCCTTGCCCAGAAGAAGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGCGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTTCTGCGGGAGTTCTTACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCTACAACCCATACACAGAGCCCAGCATGGAGGTGTTTACG
TACCACCAAGGCCTGAAGAAGTGGTGGAGGTGCGAACTCGGGGGTCTTCCGTCCAGAGATGCTGCTGCCCATG
GGGCTTCCCGAGAACGTGTCGGTCATTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC
AACAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTGAATGGGCCACTCTAGGACAGGTCATCCTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGATTTATGAGGCTCTGTGAGGCCAGCCCCACC
TTCCTCTTTCCACCTGTCCCAGGACCAGAATCCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCT
GTGTGGTGTGTCTACTGTGAGGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT
GCCCCCA

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FIGURE 5280

MADGQVAELLLRRLEASDGGLDSAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEIAREGS
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVDSEDEVQRRQLVRRGGQAEK
LGEKERSELRRKLLAEVTLKTYWVSKGSASFSTSIKQETELSPEMISSGSWDRPFKPYNFLAHGVLDPDSGHLH
PLLKVR SQFRQIFLEMGFTEMPD NFI ESSFWNFDALFQPQQHPARDQHD TFFLRDPAEALQLPMDYVQVRKTH
SQGGYGSQGYKYNWKLDEARKNLLRTHHTTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHLAEFHQIEG
VVADHGLTLGHLMGVLREFFTKLGITQLRFKPAYNPYTEPSMEVFSYHQGLKKWVEVGNSGVFRPEMLLPMGLPE
NVS VIAWGLSLERPTMIKYGINNIRELVGHKVNLMVYDSPLCRLDAEPRPPPTQEAA

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FIGURE 5281

GTCCGTACTGCAGAGCCGCTGCCGGAGGGTCGTTTTAAAGGGCCCGCGCGTTGCCGCCCCCTCGGCCCCGCCATGC
TGCTATCCGTGCCGCTGCTGCTCGGCCTCCTCGGCCTGGCCGTCGCCGAGCCTGCCGTCTACTTCAAGGAGCAGT
TTCTGGACGGAGACGGGTGGACTTCCCGCTGGATCGAATCCAAACACAAGTCAGATTTTGGCAAATTCGTTCTCA
GTTCCGGCAAGTTCTACGGTGACGAGGAGAAAGATAAAGGTTTGCAGACAAGCCAGGATGCACGCTTTTATGCTC
TGTCGGCCAGTTTCGAGCCTTTCAGCAACAAAGGCCAGACGCTGGTGGTGCAGTTCACGGTGAACATGAGCAGA
ACATCGACTGTGGGGGCGGCTATGTGAAGCTGTTTCCTAATAGTTTGGACCAGACAGACATGCACGGAGACTCAG
AATACAACATCATGTTTGGTCCCGACATCTGTGGCCCTGGCACCAAGAAGGTTTCATGTCATCTTCAACTACAAGG
GCAAGAACGTGCTGATCAACAAGGACATCCGTTGCAAGGATGATGAGTTTACACACCTGTACACACTGATTGTGC
GGCCAGACAACACCTATGAGGTGAAGATTGACAACAGCCAGGTGGAGTCCGGCTCCTTGGAAGACGATTGGGACT
TCCTGCCACCCAAGAAGATAAAGGATCCTGATGCTTCAAACCGGAAGACTGGGATGAGCGGGCCAAGATCGATG
ATCCACAGACTCCAAGCCTGAGGACTGGGACAAGCCCAGCATATCCCTGACCCTGATGCTAAGAAGCCCCGAGG
ACTGGGATGAAGAGATGGACGGAGAGTGGGAACCCCCAGTGATTGAGAACCCTGAGTACAAGGGTGAGTGGAAGC
CCCGGCAGATCGACAACCCAGATTACAAGGGCACTTGGATCCACCCAGAAATTGACAACCCCGAGTATTCTCCCG
ATCCAGTATCTATGCCTATGATAACTTTGGCGTGCTGGGCCTGGACCTCTGGCAGGTCAAGTCTGGCACCATCT
TTGACAACCTTCCTCATCACCAACGATGAGGCATACGCTGAGGAGTTTGGCAACGAGACGTGGGGCGTAACAAAGG
CAGCAGAGAAACAAATGAAGGACAAACAGGACGAGGAGCAGAGGCTTAAGGAGGAGGAAGAAGACAAGAAACGCA
AAGAGGAGGAGGAGGCAGAGGACAAGGAGGATGATGAGGACAAAGATGAGGATGAGGAGGATGAGGAGGACAAGG
AGGAAGATGAGGAGGAAGATGTCCCCGCCAGGCCAAGGACGAGCTGTAGAGAGGCCCTGCCTCCAGGGCTGGACT
GAGGCCTGAGCGCTCCTGCCGAGAGCTTGCCGCGCCAAATAATGTCTCTGTGAGACTCGAGAATTTTCATTTTT
TTCCAGGCTGGTTTCGGATTTGGGGTGGATTTTGGTTTTGTTCCCTCCTCCACTCTCCCCACCCCTCCCCGCC
CTTTTTTTTTTTTTTTTTTAAACTGGTATTTTATCTTTGATTCTCCTTCAGCCCTCACCCCTGGTTCTCATCTTTC
TTGATCAACATCTTTTCTTGCTCTGTCCCCTTCTCTCATCTCTTAGCTCCCCTCCAACCTGGGGGGCAGTGGTG
TGGAGAAGCCACAGGCCTGAGATTTTCATCTGCTCTCCTTCCTGGAGCCAGAGGAGGGCAGCAGAAGGGGGTGGT
GTCTCCAACCCCCCAGCACTGAGGAAGAACGGGGCTCTTCTCATTTTACCCCTCCCTTTCTCCCCTGCCCCAGG
ACTGGGCCACTTCTGGGTGGGGCAGTGGGTCCCAGATTGGCTCACACTGAGAATGTAAGAACTACAAACAAAATT
TCTATTAAATTAAATTTTGTGTCTC

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FIGURE 5282

MLLSVPLLLGLLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSSGKFYGDEEKDKGLQTSQDARFY
ALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPSNSLDQTDHMGDSEYNIMFGPDICGPGTKKVHVIFNY
KGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDASKPEDWDERAKI
DDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWHPIDNPEYS
PDPSIYAYDNFVGLGLDLWQVKSgtIFDNFLITNDEAYAEFGNETWGVTKAAEKQMKDKQDEEQRLKEEEEDKK
RKEEEEAEDKEDDEDKDEDEDEEDKEEDEEEDVPGQAKDEL

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FIGURE 5283

CCGGAAGTGGTCGGCGCGCGGCGCGCGCTGGGCGCTAAGATGGCGGCGGCGTGAGTTGCATGTTGTGTGAG
GATCCCGGGGGCGCCGCGTCTCGGGCCCCGCCATGGCCGTCACCATCACGCTCAAAACGCTGCAGCAGCAGAC
CTTCAAGATCCGCATGGAGCCTGACGAGACGGTGAAGGTGCTAAAGGAGAAGATAGAAGCTGAGAAGGGTCTGTGA
TGCCTTCCCCGTGGCTGGACAGAACTCATCTATGCCGGCAAGATCTTGAGTGACGATGTCCCTATCAGGGACTA
TCGCATCGATGAGAAGAACTTTGTGGTCTGTCATGGTGACCAAGACCAAAGCCGGCCAGGGTACCTCAGCACCCCC
AGAGGCCTCACCCACAGCTGCCCCAGAGTCCTCTACATCCTTCCCGCCTGCCCCACCTCAGGCATGTCCCATCC
CCCACCTGCCGCCAGAGAGGACAAGAGCCCATCAGAGGAATCCGCCCCACGACGTCCCCAGAGTCTGTGTCAGG
CTCTGTTCCCTCTTCAGGTAGCAGCGGGCGAGAGGAAGACGCGGCCCTCCACGCTAGTGACGGGCTCTGAGTATGA
GACGATGCTGACGGAGATCATGTCCATGGGCTATGAGCGAGAGCGGGTCTGGCCGCCCTGAGAGCCAGCTACAA
CAACCCCCACCGAGCCGTGGAGTATCTGCTCACGGGAATTCCTGGGAGCCCCGAGCCGGAACACGGTTCTGTCCA
GGAGAGCCAGGTATCGGAGCAGCCGGCCACGGAAGCAGCAGGAGAGAACCCCCCTGGAGTTCCTGCGGGACCAGCC
CCAGTTCAGAAACATGCGGCAGGTGATTACGACAGAACCTGCGCTGCTGCCCGCCCTGCTCCAGCAGCTGGGCCA
GGAGAACCCTCAGCTTTTACAGCAAATCAGCCGGCACCCAGGAGCAGTTTCATCCAGATGCTGAACGAGCCCCCTGG
GGAGCTGGCGGACATCTCAGATGTGGAGGGGGAGGTGGGCGCCATAGGAGAGGAGGCCCCGAGATGAACTACAT
CCAGGTGACGCCGAGGAGAAAGAAGCTATAGAGAGGTTGAAGGCCCTGGGCTTCCCAGAGAGCCTGGTTCATCCA
GGCCTATTTGCGGTGTGAAAAAATGAGAACTTGGCTGCCAACTTCCTCCTGAGTCAGAACTTTGATGACGAGTG
ATGCCAGGAAGCCAGGCCACCGAAGCCCCACCCTACCCTTATTCATGAAAGTTTTATAAAAGAAAAATATAT
ATATATTCATGTTTATTTAAGAAATGGAAAAAATCAAAAATCTTAAAAAACAAGCAAACAGTCCAGCTTCC
TGTCTCTCTAAAGTGGCCCCCTGTTCCCATCTCCGGGCCAGACAGCTGTCCCCCGTCTCTCTCCCCAGCCCAGC
CTGCTCAGAGAAGCTGGCAGGACTGGGAGGCGACAGATGGGCCCCCTTTGGCCTCTGTCCAGCTCTCTGCAGCC
AGACGGAAAGGCGGCTGCTTGCTCTCCATCCTCCGAAAAACCCCTGAGGACCCCCCCCCATCCTCTTCTAGGAT
GAGGGGAAGCTGGAGCCCCAACTTTGATCCTCCATTGGAGTGGCCCAAATCTTCCATCTAGGGCAAGTCTTGAA
AGGCCCAAGGCCCCCTCCCAGTCTGGCCTTGGCCTCCAGCCTGGAGAAGGGCTAACATCAGCTCATTGTCAAGG
CCACCCCCACCCAGAACAGAACCGTGTCTCTGATAAAGGTTTTGAAGTGAATAAAGTTTTAAAACT

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FIGURE 5284

MAVTITLKTLLQQOTFKIRMEPDETVKVLKEIEAEKGRDAFPVAGQKLIYAGKILSDDVPIRDYRIDEKNFVVVM
VTKTKAGQGTSAPPEASPTAAPESSTSFPPAPTSGMSHPPPAAREDKSPSEESAPTTSPESVSGSVPSGSSGRE
EDAASLTVTGSEYETMLTEIMSMGYERERVVAALRASYNPNHRAVEYLLTGIPGSPEPEHGSVQESQVSEQPATE
AAGENPLEFLRDQPQFQNMROVIQQNPALLPALLOQLGQENPQLLQQISRHOEQFIQMLNEPPGELADISDVEGE
VGAIGEEAPQMNYIQVTPQEKEAIERLKALGFPESLVIQAYFACEKNENLAANFLLSQNFDDE

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FIGURE 5285

ATGGCGGCGTCCGTGCGACAGGCACGCAGCCTACTAGGTGTGGCGGCGACCCCTGGCCCCGGGTTCCTCGTGGCTAC
CGGGCGCGGCCGCCCCGCGCCGCAGGCCGGGACCCCGGTGGCCAGACCCCGAGGACCTCCTGACCCCGCGGTGG
CAGCTGGGACCGCGCTACGCGGCTAAGCAGTTCGCGCGTTACGGCGCCGCTCCGGGGTGGTCCCCGGTTCGTTA
TGGCCGTGCGCGGAGCAGCTGCGGGAGCTGGAGGCCGAAGAACGCGAATGGTACCCGAGCCTGGCGACCATGCAG
GAGTCGCTGCGGGTGAAGCAGCTGGCCGAAGAGCAGAAGCGTCGGGAGAGGGAGCAGCACATCGCAGAGTGCATG
GCCAAGATGCCACAGATGATTGTGAAC'TGGCAGCAGCAGCAGCGGGAGAACTGGGAGAAGGCCAGGCTGACAAG
GAGAGGAGGGCCCGACTGCAGGCTGAGGCCAGGAGCTCCTGGGCTACCAGGTGGACCCAAGGAGTGCCCGCTTC
CAGGAGCTGCTCCAGGACCTAGAGAAGAAGGAGCGCAAGCGCCTCAAGGAGGAAAAACAGAAACGGAAGAAGGAG
GCGCGAGCTGCTGCATTGGCTGCAGCTGTGGCTCAAGACCCAGCAGCCTCTGGGGCACCCAGCTCCTGA

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FIGURE 5286

CTAATTCGGGAAACGTGCACCTTGAATAATTCGGTTTTCTGTGGCTACGAGAGCAGGCTTGGCGGGCGGAGGCGC
CAGCGGATGTCTCATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTTCCGCTCCGCCCGGGTGCTCTCTAGAGC
CCGGTTTTTTCAGTGGCAGTCTCCAGGGCTGCCGAATACAGCAGCGATGGAGAACGGCACC GGCCCTACGGAGA
AGAACGTCCACGTGAAGTCCAGGAGACGACAGTCACCGAGGGGGCTGCCAAAATCGCCTTTCCAGTGCCAACGA
GGTCTTTTATAACCCGGTGACAGGAATCAATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGCTCGCATTCA
GCTTGGGGCCAAAGGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCGTGGACTTGTCAGA
GCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCAGGAGACCAACCTCGCACAGCGGCCGT
GGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTGGAAGGCCTGGCAGCTTCAGGCCTACGTTCCATTTCGATTTGC
CCTAGAGGTGCCTGGGCTCAGATCTGTGGTTGCAAACGATGCCTCCACCCGGGCTGTGGATCTCATACGCCGGAA
TGTCCAGCTCAATGACGTGGCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATGTACCAGCACCA
GAGGGTGTTCGGAGAGGTTTGACGTCTCATGATCTGGACCCCTATGGCAGCCAGCCACCTTCTGGATGCAGCTGT
GCAGGCTGTGAGTGAAGGAGGGTTGCTGTGTGTGACCTGCACAGACATGGCGGTGTTGGCGGGGAACAGCGGGGA
GACGTGCTACAGCAAGTACGGGGCCATGGCCCTCAAGAGCCGGGCTGCCACGAGATGGCCCTGAGAATCGTCCT
GCACAGCCTGGACCTCCGCGCCAAC TGCTACCAGCGCTTCGTGGTGCCGCTGCTCAGCATCAGCGCTGACTTCTA
CGTGCGTGT TTTTGTCCGTGTCTTCACCGGCCAGGCCAAGGTCAAGGCCTCAGCCAGCAAGCAGGCGCTGGTGTT
CCAGTGTGTGGGCTGCGGGGCCTTCCACCTTCAGCGTCTCGGCAAAGCGTCAGGAGTCCCCAGCGGCCGGGCCAA
GTTCTCTGCAGCCTGTGGTCCCCCTGTGACCCCGAGTGTGAACACTGTGGGCAACGACACCAGCTTGGTGGCCC
CATGTGGGCAGAGCCCATCCATGACCTGGATTTTGTGGGCCGTGTCTGGAGGCTGTGAGCGCTAACCCCGGCCG
CTTCCACACCTCGGAGCGGATCCGAGGGTCTCTGAGCGTCATCACTGAGGAGCTCCCGGACGTGCCTCTGTACTA
CACCTGGACCAGCTGAGCAGCACCATCCACTGCAACACACCAAGCCTCCTGCAGTTGCGGTGCGCCCTCCTCCA
CGCTGACTTCCGGGTCTCACTCTCCACGCCTGTAAGAAGCTGTGAAGACGGATGCCCTTGCTCTGCCCTCTG
GGACATCATGCGTTGCTGGGAGAAGGAATGTCCGGTGAAACGGGAGCGACTATCAGAGACTAGCCAGCGTTCCG
CATTCTCAGTGTGGAGCCAGGCTGCAGGCCAACTTCACCATCCGGGAAGATGCCAACCCAGCTCCCGACAGCG
AGGACTCAAGCGCTTCCAGGCTAACCCGGAGGCCAACTGGGGTCCCCGGCCTCGTGCCCGCCAGGGGGCAAGGC
GGCCGACGAAGCTATGGAGGAGAGACGACAGGCTGCTTCAGAACAAGCGGAAGGAGCCGCCGAAGATGTGGCCCA
GCGGGCTGCCCGGCTCAAGACATTTCTTTGCAAGAGGTTTAAGGAGGGCACCTGTCAACGCGGGGACCAGTGCTG
CTACTCCACAGCCCCCGACACCCAGGGTTTCTGTGTGATGTGCCCCCTGACTGTCCAGAGACCTCCAACCAGAC
CCCCCTGGACCTGGGGCTGCCGCTGGGCCAGGCATAGACTGAACCAATAAAGAGATGTCACGTACCTTCAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5287

MQGSSLWLSLTFRSARVLSRARFFEWQSPGLPNTAAMENGTGPYGEERPREVQETTVEGAAKIAFPSANEVFYN
PVQEFNRDLTCAVITEFARIQLGAKGIQIKVPGEKDTQKVVVDLSEQEEKVELKESENLASGDQPRTAAVGEIC
EEGLHVLEGLAASGLRSIRFALEVPLRSVVANDASTRAVDLIRRNVQLNDVAHLVQPSQADARMLMYQHQRVSE
RFDVIDLDPYGSPATFLDAAVQAVSEGGLLCVTCTDMAVLAGNSGETCYSKYGAMALKSRACHEMALRIVLHSLD
LRANCYQRFVVPLLSISADFYVRVFRVFTGQAKVKASASKQALVFQCVGCGAFHLQRLGKASGVPSGRAKFSAA
CGPPVTPECEHCGQRHQLGGPMWAEP IHDLD FVGRVLEAVSANPGRFHTSERIRGVLSVITEELPDVPLYTLDQ
LSSTIHCNTPSLQLRSALLHADFRVSLSHACKNAVKTDAPASALWDIMRCWEKECPVKRERLSETSPAFRILSV
EPRLQANFTIREDANPSSRQRLKRFQANPEANWGPRPRARP GGKADEAMEERRLLQNKREPPEDVAQRAAR
LKTFPCKRFKEGTCQRGDQCCYSHSPPTPRVSADAAPDCPETSNTTPPGPGAAAGPGID

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FIGURE 5288

ATGTCTCTCGAAGACCCCTTTTTGTAGTCCGAGGCGAGGTGCAGAAGGCGGTGAACACGGCCCGCGGGCTGTAC
CAGCGCTGGTGCGAGCTCCTGCAGGAAAGCGCGGCGGTTCGGACGCGAGGAGCTGGACTGGACGACCAATGAGCTG
CGGAATGGCCTGCGCAGCATCGAGTGGGACCTCGAGGACCTGGAAGAGACCATCGGTATAGTGGAAGCCAACCCA
GGCAAGTTCAAGCTCCCAGCCGGGGACCTGCAGGAGAGAAAAGGTGTTCTGTGGAGCGGATGCGAGAGGCAGTCCAG
GAAATGAAGGACCATATGGTCAGCCCAACAGCCGTAGCATTTTTGGAGAGGAATAACAGAGAGATACTCGCAGGC
AAGCCAGCTGCCCAGAAGTCACCCAGCGACCTGCTGGATGCCAGCGCAGTCTCGGCCACATCTCGCTACATCGAG
GAGCAGCAGGCCACACAGCAGCTGATCATGGATGAACAGGATCAACAGCTGGAGATGGTGTCTGGGAGCATCCAG
GTTCTGAAGCACATGTCCGGCCGCGTTGGAGAAGAGCTGGACGAGCAGGGCATCATGCTGGATGCCTTCGCCCAA
GAGATGGACCACCCCAGTCCCGCATGGACGGGGTCCTCAGGAAGTTGGCCAAAGTATCCCACATGACGAGTGAC
CGCCGACAGTGGTGTGCCATCGCCGTGCTAGTGGGGTGCTTCTCCTCGTTCTCATCTTACTATTCTCTCTCT**TGA**

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FIGURE 5289

MSLEDPFFVVRGEVQKAVNTARGLYQRWCELLQESAAVGRELDWTTNELRNLRSIEWDLEDLEETIGIVEANP
GKFKLPAGDLQERKVFVERMREAVQEMKDHMVSP TAVAFLEARNNREILAGKPAAQKSPSDLLDASAVSATSRYIE
EQQATQQLIMDEQDQQLEMVSGSIQVLKHMSGRVGEELDEQGIMLDAFAQEMDHTQSRMDGVLRLAKVSHMTSD
RRQWCAIAVLVGVLVLLLVLLFSL

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FIGURE 5290

GGTTTGTGTAGAGAGGCGTGAGCGAGCCCGTTGTCCGGAGTGCACCTGCTGCCTGTTCTGTCCCTCCCGGGAGCC
CCCGCCGCTGTGCGCCGTGAGTGCAGTGCAGTGAAGTGCAGAAAAGAGGCACAGCGCATCATGACCCGTGTCGGTGTGGA
AGATGTATCACTCCCGCATGACAGCGCGGTGGCCTGCGGCTGCACCGGAGTCTGCAGCTGTGCTGGTCAATGCGCA
GCGCCCCGGGAGCTCTACCTCTCGGCCAAGGTGGAGGCCCTCGAGCCCCGAGGTGTGCTTGGCCGGCCGCCCTCCCT
CTGACCCCTCGCTGCACCCGCCCGGAGAAGCCGAGTCCACGGCCGAGACAGCGACCCCCGACGGTGTAGCACCCGT
TTCCGGAGCCAATGGACACGCAGGAGGCGCCGACAGCCGAGGAGACCTCCGCTGCTGTGCCCCGCGCCCCGCCA
AAGTCAGCCGCAAACGACGCAGCAGCAGCCTGAGCGACGCGGGGACGCTGGACTGGTCCCCGAGCAAGAAAGCCC
GTCTGGAAGAAAAGGAAGAAGAGGAGGGAGCGTCAATCCGAGTCGCCGATCGCCTGCAGCCCCCTCCGGCGCAAG
CGGAGGGCGCCTTTCCCAACCTGGCCCGCGTCTGACAGAGCGCTTCTCCGGCCTCTGAACTGCAGCCCCGCGG
CCCCCTCCGACGGCGCCGCCGCGTGCAGAGCAAAGCCCGCTTGCCGCCCGCGGACAGCATGCTCAACGTGCTCG
TGCGGGCCGTGGTGGCCTTCTGAGGACCCCGAGCGGCGCTGCCGGAGCCCAGAGCGCGCGTCAACCGTCCGGCC
GAGGGCGCAGACCTGAGGCGAGGCCACCCCCCTCCATCCTGGGGGAAGCGCCCGCGAAAACCGTGGAGAGAAGCC
GCCGCCCGGGCTGCTGAGAGGCCCGGAGAGGGACTCTGTCCCCGGGGAGCCATCGCCTTCAGTGTGACGGGACGG
CACCGAGGAGTCTGAGCCGGGGCGCGGGCGCCTTCCGACAGACCTGCGCCACAGGTGCTGTCTTAGTGGACT
GGGACGTGAACCTTTCGCTCTCCTTCTGGACTGGGAGAAGGGAGGCTTGGGTGTTGTGTTTTTGTGTTTGTGTTGT
TTGTTTGTGTTTTAAAGATCTCCTCAGGGTCGGACTTCATTTTGTACTGTGGGCTGTGCTGGCCCTTTCAAGGTTT
TTCAAGAGTTGGTTTTGCGTTTTCAACCTCGGAGAATTCAGGCACTCCCTTCCCCCTCCGCTGACATACTTGT
ATAAGCGGTATCGTTGCGTCATGGGGCAGGCGTGGGGAGCTTCTGTGCGCTTGCCTGGGTGTGGGGCCTGGGA
GGAGTCTTGGGGCGTGCACCCGCCCTGGGCAGTGGGGAGGAGAGTGGCCTGAGTTACTTACCCCCGCGTGTG
CTGGTTAATGTCCCGCTCTCTGCACCTTCGGGTGGGAGCGGGGACTGATCTACTTTACATTCTCAAGTTTTTC
TCATCTGCATTAGAGGTGCCAGTAGGTTCCAGGTTCCAGCGTGCCCTCCCTCAGACACACGGACACAATCAG
CCGAGAAGTTCTGGTCTGAATCACGAGAATGTGGAGGGGTGGGGGTGTGAGTGGAAAGGCATAAGGCTGAGCT
GAGACCAGTTGCTGGTGAACCTGGGCCAATCTGGGGAGGGGAACATCCTTGCCAGGGAGTTCTGAGGGTCTGCT
TTGTTTACCTTTCGTGCGGTGGATTCTTTTTAACTCCGTCTACCTGGCGTTTTGTTAGAAATGTCAGATAGGAAA
ATAAAAACCATTTGAGT

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FIGURE 5291

MEVQKEAQRIMTSLVWKMYHSRMQRGGLRLHRSLSLVMRSARELYLSAKVEALEPEVSLPAALPSDPRLHPPR
EAESTAETATPDGEHPFPEPMDTQEAPTAEETSACCAPRPAKVSRKRRSSSLSDGGDAGLVPSKKARLEEKEEEE
GASSEVADRLQPPPAQEGAFPNLARVLQRRFSGLLNCSPAAPPTAPPACEAKPACRPADSMNLNVLVRVAVAF

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FIGURE 5292

CAAGTGC GCGCGGACCCCTAGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACCAATGACCCTGGAGGCGATC
CGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGCCCAAGCAGAGCCGCTACGAGGCGGTGGGC
TCGGTGCAACCAGGCCTGGGAGGCCATCCGCGCCATGAAGGTGCGGGGCGCCCCGGCCATAGCCCTGGTGGGCTGT
CTCAGCCTCGCCGTGGAGCTGCAGGCGGGCGCCGGGGGACCGGGACTCGCCGCGCTCGTGGCCTTCGTGCGCGAC
AAGCTGAGCTTCCTCGTCAACCGCCCCGGCCCCACCGCTGTCAACATGGCCCCGCGCCGCGCCGCGACCTGGCTGATGTT
GCAGCCCCGGGAGGCCGAACGGGAGGGCGCTACGGAAGAGGCGGTCCGGGAGAGAGTGATCTGCTGCACCGAGGAC
ATGCTGGAGAAAAGACCTCAGAGACAACCGAAGCATTGGGGACCTAGGAGCCCGCCACCTCCTGGAGCGGGTGGCC
CCCAGCGGTGGCAAGGTGACTGTGCTGACCCACTGTAACACTGGTGCTCTGGCCACCGCTGGCTATGGTACAGCC
CTAGACGTGAAACGGAGCTATGCGAGCATTGGGAAGAGCATAACAGGCAGAGGGAAGTGCCACTGCGAGGGCCCC
TGGGCGGGACTGTGCTCGGTAAGCCTTTGGCAATCCACGCCCAGACTAGGAGCCTGCACCCCTAACCAATGGACC
ACCCTGTCTGTTTGCCCCCTCCCCGGGGCCTTCTCCTGGTGGGTGGGGCCCCCGCAGGTGTGATTGCTCACTGCA
CAGCCTGGGCGCCTGGAGCATGCCTTCTGCACAGAGACCCGGCCCTACAACCAGGGAGCCCGGCTGACGGCCTT
TGAGCTGGTCTATGAGCAGATCCC

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FIGURE 5293

MTLEAIRYSRGS LQILDQ LLLPKQSR YEAVGSV HQAWEAIRAMKVRGAPAIALVGCLSLAVELQAGAGGPGLAAL
VAFVRDKLSFLVTARPTAVNMARAARDLADVAAREAEEREGATEEEAVRERVICCTEDMLEKDLRDNRSIGDLGARH
LLERVAPSGGKVTVLTHCNTGALATAGYGTALGVIRSLHSLGRLEHAFCTETRPYNQGARLTAFELVYEQIPATL
ITDSMVAAAMAHRGVSAVVVGADRVVANGDTANKVGTYQLAIVAKHHGIPFYVAAPSSCDLRLETGKEIIIEER
PGQELTDVNGVRIAAPGIGVWNPAFDVTPHDLITGGIITELGVFAPEELRTALTTTISRDTLDGPGQM

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FIGURE 5294

GAATTAAAAAAAAAAAAAAGCCTTATTATTATCATTTTCCCCACCGTTGGCATGGCAACACAGGCGTATACTGA
GCTACAGGCAGCCCCGCCACCATCCCAGCCGCCACAGGCCCCGCCACAAGCCCAGCCCCAGCCGCCACCGCCACC
ACCCCCAGCGGCACCCAGCCCCCGCAGCCACCCACCGCTGCTGCCACCCCTCAGCCCCAATATGTACCGAGCT
GCAGAGCCCCAGCCCCAGGCACAGCCACCGGGTGGCCAGAAGCAGTACGTGACGGAGCTCCCGGCTGTACCCGC
ACCCTCGCAGCCAACCGGTGCACCCACCCCTTCGCCTGCACCCAGCAGTACATCGTGGTCACTGTCTCTGAAGG
TGCCATGCGGGCCAGCGAGACAGTGTGGAGGCCAGCCCCGGCTCCACCGCCAGCCAGACCGGCGTTCTACTCA
GGTGGTTACAGAGGTGCAGGGCACCCAGCAGCGGCTGCTGGTCCAGACGAGCGTGCAGGCCAAGCCAGGCCACGT
GTCGCCCTCCAGCTGACCAACATCCAAGTGCCCCAGCAGGCTCTTCCCACGCAGCGTCTGGTGGTGCAGAGCGC
AGCCCCAGGCAGCAAAGGTGGCCAGGTCTCCCTGACGGTCCATGGTACCCAGCAGGTGCACTCGCCCCCAGAGCA
GTCGCCGGTGCAGGCCAACAGCTCTTCCAGCAAGACAGCCGGGGCCCCCACGGGCACAGTGCCACAGCAGCTGCA
GGTCCACGGCGTCCAGCAGAGTGTCCCGTCAACCAAGAGAGATCTGTGGTCCAGGCCACTCCACAAGCGCCCAA
ACCCGGCCCCGGTGCAGCCGCTGACCGTGCAGGGCTCCAGCCAGTCCACGTGGCTCAAGAGGTGCAGCAGCTCCA
GCAGGTGCCCGTCCCACACGTGTACTCCAGCCAGGTGCAGTATGTGGAGGGCGGCGATGCCAGCTACACGGCCAG
TGCCATCCGTTCCAGCACCTACTCCTATCCCAGACGCCGCTGTACACGCAGACGGCAAGCACCAGCTACTACGA
GGCCGCAGGCACGGCCACCCAGGTGAGCACCCCCGCCACCTCCAGGCGGTGGCCAGCAGTGGCTCCATGCCCAT
GTACGTGTCCGGCAGCCAGGTGCTCGCCAGCTCCACCAGCACTGGGGCTGGGGCCAGCAACAGCAGCGGAGGTGG
TGGCAGTGGTGGTGGCGGCGGGCGGGGAGGCGGTGGCGGGGGTGGCAGTGGCAGCACCGGAGGCGGCGGCAG
CGGAGCAGGCACCTACGTGATCCAAGGCGGTACATGCTGGGCAGTGCCAGCCAGTCTTACTCTCACACCACCCG
TGCTCGCCAGCCACGGTCCAGTGGCTCCTGGACAATATGAGACGGCTGAGGGCGTGAGTCTGCCACGGAGCAC
CCTCTACTGCCACTACTTACTGCACTGCCAGGAGCAGAAGCTGGAGCCCGTCAACGCCGCTCCTTCGGCAAGCT
CATCCGCTCCGCTTTCATGGGCTGCGAACCCGCCGCTCTGGGCACCAGGGGCAACTCCAAGTACCACTACTATGG
CCTGCGCATCAAGGCCAGCTCACCCCTGCTGCGGCTGATGGAGGACCAGCAGCACATGGCCATGCGGGGCCAGCC
CTTCTCGCAGAAGCAGAGGCTCAAGCCCATCCAGAAGATGGAAGGCATGACCAACGGCGTGGCGGTGGGGCAGCA
GCCGAGCACGGGGCTGTGCGACATCAGCGCCAGGTGCAGCAGTACCAGCAATTTTGGATGCCTCTCGGAGCCT
CCCTGACTTCACAGAGCTCGACCTCCAGGGCAAGGTGCTGCCTGAGGGCGTCGGGGCCGGGGACATCAAAGCCTT
CCAGGTCTGTACCGGGAACACTGTGAGGCCATTGTGACGTGATGGTGAACCTGCAGTTACCCCTGGTGGAGAC
GCTGTGGAAGACCTTCTGGAGGTACAACCTCAGCCAGCCAGTGAGGGCGCCACCGCTGGCTGTACATGACGAGGC
CGAGAAGCGACTGCCCAAAGCCATCCTGGTGCTCCTCTCCAAGTTCGAGCCCGTGTCTCAATGGACCAAGCACTG
TGACAACGTGCTGTACAGGGCTGGTGGAAATCCTCATTTCCGACGTGCTGCGGCCATCCCCAGTGCCTTGAC
CCAAGCGATCCGGAACTTTGCCAAGAGCCTGGAGAGCTGGCTCACCCACGCCATGGTCAACATCCCCGAGGAGAT
GCTGCGGGTGAAGGTGGCCGCGGCTGGCGCCTTCGCGCAGACACTGCGGCGCTACACGTGCTCAACCACCTGGC
GCAGGCGGCGCGCTGTGCTGCAGAACCCGCACAGATCAACCAGATGCTGAGCGACCTCAACCGCGTGGACTT
CGCCAACGTGCAGGAGCAGGCTCGTGGGTGTGCCGCTGCGAGGACCGCGTGGTGCAGCGGCTGGAGCAGGACTT
CAAGGTGACGCTGCAGCAGCAGAATCGCTGGAGCAGTGGGCGGCTGGCTGGACGGCGTGGTGGCCAGGTGCT
CAAGCCCTACAGGGCAGCGCCGGCTTCCCCAAGGCCGCCAAGCTCTTCTCTCAAGTGGTCTCTTCTACAGCTC
CATGGTGTATCCGGGACCTGACCTGCGCAGCGCGCCAGCTTCGGTTCCTTCCACCTCATCCGGCTGCTCTACGA
CGAGTACATGTACTACCTGATCGAGCACCGCGTAGCCAGGCCAAGGGCGAGACCCCATCGCCGTGATGGGCGA
GTTCGCCAATCTGGCCACCTCCCTGAACCCCTGGACCCCGACAAAGACGAGGAGGAAGAAGAGGAGGAGGAGAG
CGAGGACGAGCTGCCGCAGGACATCTCACTGGCGGCTGGCGGCGAGTCAACCGCGCTGGGCGGAGACCTGGA
GCCGCCGGCCAAGCTGGCGCGGACTGACGCGCGGCGCTCTTCGTGCAGGCGCTGCCCTCCAGCTAAGCCCTTGG
CCTCCCCGCCCCACCCGCCCCCGCCACCCCTCCACGCCAGGGTCCC

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FIGURE 5295

CGCGTCCGCCGATTCCCTCCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAAACTTCCTAGC
ACATGAGAAGATCTGGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCC
TGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCAGCCGGAGACCACAGCGAGCTCGTTGTCCGGATCGCCAGTC
TGGAAGTGGAGAACCAGAGCCTGCGTGGCGTGGTACAGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGGCCAGC
TGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGGCCACGGCCCCGCAGACCCAGCACGTGTCTCCTATGCGCC
AAGTGGAGTCCCCGGCCAAGAAGCCAGCCTCACCAGCAGAGGATGACGAGGATGATGACATCGACCTGTTTGGCA
GCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGCTACGGCAGTACGCGGAGAAGGCCA
AGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCCTTGGGACGATGAGACGGACATGGCCC
AGCTGGAGGCCTGTGTGCGCTCTATC

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FIGURE 5296

MATNFLAHEKIWFDFKFKYDDAERRFYQQMNRPVAGASRQSSGPGASSGPGSDHSELVVRIASLEVENQSLRGVVQ
ELQQAISKLEAQLNVLEKSSPGHRATAPQTQHVSPMRQVESPAKKPASPAEDDEDDIDLFGSDNEEDKEAAQL
REERLRQYAEKAKKPALVAKSSILLDVKPWDDETDMAQLEACVRSIELDGLVWGTSKLMFVGYGIRKLQIQCVVE
DDKVGTYLLEEEITKFEEHVQSVDIAAFNKI

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FIGURE 5297

CCTCCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAACTTCCTAGCACATGAGAAGATCT
GGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCCTGTGGCAGGTGCCT
CCCGCCAGGAGAACGGCGCCAGCGTGATCCTCCATGACATTGCAAGAAGCCAGCCTCACCAGCAGAGGATGACGA
GGATGATGACATCGACCTGTTTGGCAGCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCG
GCTACGGCAGTACGCGGAGAAGGCCAAGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCC
TTGGGACGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCGAGCTGGACGGGCTGGTCTGGGG
GACCTCCAAGCTGATGCCCCTGGGCTACGGTATCCGGAAGCTACAGATTCACTGTGTGGTGGAGGACGACAAGGT
GGGGACTTACTTGCTGGAGGAGGAGATCACTAAATTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAA
CAAGATCTGAAGCCTGAGTGTGTGTATGTGTGCGCTGCGTAAGGCCCTGCCACGATTAAAGACTGAGACCGGC

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FIGURE 5298

CAGTGXGCTCCGGGCGCCGGCGCCGAGCCAGCACCCGCCGCGCCGAGCTCCGGGACCGGCCCCGGCCGCCGCG
CCGCGATGGGCAACGCCGCCGCCGCCAAGAAGGGCAGCGAGCAGGAGAGCGTGAAAGAATTCTTAGCCAAAGCCA
AAGAAGATTTTCTTAAAAAATGGGAAAGTCCCGCTCAGAACACAGCCCACTTGATCAGTTTGAACGAATCAAGA
CCCTCGGCACGGGCTCCTTCGGGCGGGTGATGCTGGTGAACACAAAGGAGACCGGGAACCACTATGCCATGAAGA
TCCTCGACAAACAGAAGGTGGTGAACAGATCGAACACACCCTGAATGAAAAGCGCATCCTGCAAGCTG
TCAACTTTCCGTTTCTCGTCAAACCTCGAGTTCTCCTTCAAGGACAACCTCAAACCTTATACATGGTCATGGAGTACG
TGCCCGGCGGGGAGATGTTCTCACACCTACGGCGGATCGGAAGGTTTCACTGAGCCCCATGCCCGTTTCTACGCGG
CCCAGATCGTCTTGACCTTTGAGTATCTGCACTCGCTGGATCTCATCTACAGGGACCTGAAGCCGGAGAACTCTGC
TCATTGACCAGCAGGGCTACATTAGGTGACAGACTTCGGTTTCGCCAAGCGCGTGAAAGGCGCGCACTTGACCT
TGTGCGGCACCCCTGAGTACCTGGCCCTGAGATTATCCTGAGCAAAGGCTACAACAAGCCGTGGACTGGTGGG
CCCTGGGGGTCTTATCTATGAAATGGCCGCTGGCTACCCGCCCTTCTTCGCAGACCAGCCCATCCAGATCTATG
AGAAGATCGTCTCTGGGAAGGTGCGCTTCCCTTCCCACTTCAGCTCTGACTTGAAGGACCTGCTGCGGAACCTCC
TGCAGGTAGATCTCACCAAGCGCTTTGGGAACCTCAAGAATGGGGTCAACGATATCAAGAACCACAAGTGGTTTG
CCACAACCTGACTGGATTGCCATCTACCAGAGGAAGGTGGAAGCTCCCTTCATACCAAAGTTTAAAGGCCCTGGGG
ATACGAGTAACTTTGACGACTATGAGGAAGAAGAAATCCGGGTCTCCATCAATGAGAAGTGTGGCAAGGAGTTT
CTGAGTTTTAGGGGCATGCCTGTGCCCCCATGGGTTTTCTTTTTCTTTTTCTTTTTTGGTTCGGGGGGGTGG
GAGGGTTGGATTGAACAGCCAGAGGGCCCCAGAGTTCTTGCATCTAATTTACCCCCACCCACCTCCAGGGT
TAGGGGGAGCAGGAAGCCAGATAATCAGAGGGACAGAAACACCAGCTGCTCCCCCTCATCCCTTCACCTCCT
GCCCCCTCTCCCACTTTTCCCTTCTCTTCCCAACAGCCCCCAGCCCCCAGCCCTCCAGCCCTCCAGCCCACTCTGCC
TGTTTTAAACGAGTTTCTCAACTCCAGTCAGACCAGGTCTTGCTGGTGTATCCAGGGACAGGGTATGGAAAGAGG
GGCTCACGCTTAACTCCAGCCCCCACCACACCCCATCCACCCAACCACAGGCCCCACTTGCTAAGGGCAAT
GAACGAAGCGCCAACCTTCTTTTCGGAGTAATCCTGCCTGGGAAGGAGAGATTTTAGTGACATGTTCACTGGGT
TGCTTGCTAGAAATTTTTTAAAAAACAACAATTTAAATCTTATTTAAGTTCACCAAGTGCTCCCTCCCTCCT
TCCTCTACTCCCACCCCTCCCATGTCCCCCATTCCTCAAATCCATTTAAAGAGAAGCAGACTGACTTTGAAA
GGGAGGCGCTGGGGTTTGAACCTCCCCGCTGCTAATCTCCCTGGGCCCCCTCCCGGGGAATCCTCTCTGCCAAT
CCTGCGAGGGTCTAGGCCCTTTAGGAAGCCTCCGCTCTCTTTTTCCCAACAGACCTGTCTTACCCCTTGGGCT
TTGAAAGCCAGACAAAGCAGCTGCCCTCTCCCTGCCAAAGAGGAGTCAATCCCCAAAAGACAGAGGGGGAGCC
CCAAGCCCAAGTCTTTCTCCAGCAGCGTTTCCCCCAACTCCTTAATTTTATTCTCCGCTAGATTTTAACGTC
CAGCCTTCCCTCAGCTGAGTGGGAGGGCATCCCTGCAAAAGGGAACAGAAGAGGCCAAGTCCCCCAAGCCACG
GCCCCGGGTTCAAGGCTAGAGCTGCTGGGGAGGGGCTGCCTGTTTTACTCACCCACCAGCTTCCGCCCTCCCCAT
CCTGGGCGCCCTCCTCCAGCTTAGCTGTGAGCTGTCCATCACCTCTCCCCACTTTCTCATTTGTGCTTTTTTC
TCTCGTAATAGAAAAGTGGGGAGCCGCTGGGGAGCCACCCATTCAATCCCGTATTTCCCCCTCTCATAACTTCT
CCCCATCCAGGAGGAGTTCTCAGGCCTGGGGTGGGGCCCCGGGTGGGTGCGGGGCGATTCAACCTGTGTGCTG
CGAAGGACGAGACTTCTCTTGAACAGTGTGCTGTTGTAAACATATTTGAAAATATTACCAATAAAGTTTGT

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FIGURE 5299

MGNAAAAKKGSEQESVKEFLAKAKEDFLKKWESPAQNTAHLQFERIKTLGTGSFGRVMLVKHKETGNHYAMKIL
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMVMYVPGGEMFSLRRIGRFSEPHARFYAAQ
IVLTFEYLLHSLDLIYRDLKPENLLIDQQGYIQVTDGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNKAVDWWAL
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFPSSHFSDDLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFAT
TDWIAIYQRKVEAPFIPKFKGPGDTSNFDDEEEEEIRVSINEKCGKEFSEF

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FIGURE 5300

AGATTTGAAGGCGGCGCGGACTAGGTGCGCACTTCAGTTCTCGGAGAGAAGAGGCGGGAGTGACCTGGTCAG
CCCTACCCCACTGACCCCAACCGGACCCAGGCGCGGCCTCCGCCACAGCCACAGCCCCTGCCCCCTGCTGCGGCGCG
GCGAGGCGAGGCGCATGGCCAAGGTGTCGGTGCTGAACGTGGCGGTCTTGAGAGAACCCGAGCCCTTTCCACAGCCC
CTTCCGGTTCGAGATCAGCTTCGAGTGCAGTGAAGCCCTGGCGGACGACCTGGAGTGGAAGATCATTATGTTGG
CTCGGCTGAGAGTGAGGAATTTGATCAGATCCTAGACTCGGTGCTGGTGGGCCCTGTGCCAGCAGGGAGACACAT
GTTTGTCTTTAGGCGGACGCCCCCAACCCATCCCTCATCCCAGAGACTGATGCCGTGGGTGTGACTGTGGTCCT
CATCACCTGCACCTACCATGGACAGGAGTTTCATCCGAGTGGGCTACTACGTCAACAACGAGTACCTCAACCCCTGA
GCTGCGTGAGAACCCGCCCATGAAGCCAGATTTCTCCAGCTCCAGCGGAACATCTTGCCCTCGAACCCCCGGGT
GACCCGCTTCCATATCAACTGGGACAACAACATGGACAGGCTGGAGGCCATAGAGACCCAGGACCCCTCCCTGGG
CTGCGGCCTCCCACTCAACTGCACTCCTATCAAGGGCTTGGGGCTCCCTGGCTGCATCCCTGGCCTCCTCCCTGA
GAACTCCATGGACTGCATCTAACTGCAGGAACCCAGAGTGTCCAGCACGCCGGGAGGGGCAACCAGGCCTCCCA
GCGAGTCCTGCAGGGCCCATCTAGAGGACTTTGGGGGCCATCAGCTGCAATCCAGGTCTGTCAAACCTCAGCCCT
AGGAAAGAACAGGCCTTGGGTCTCCCTAGTCCTGGCCAGAAGGATGATCTCGCTTTTCTCTACAGGCCTATAA
GAAGCAGGTACTTCAGTTCTAAATTCTGACTTGTGTTCTTTTCGTCTTCATAAATTCTAACTAAGGCCACTGTGC
CACTGTGCACCCTTGAGTACCATTGATCCAAAGCTTTCCACAGACCTCCCTGGCCACCTAGAGGCTTTCTTGG
TCAGTGCCTGTCAAGGCTCCAGTCCTGCTGAGCCAAAGGCTTTGTCAATTCCTTTCTCTTCTGTACATCTGAGCA
GACCACTCCAGCTTTCTGGTGTACAGGCGGGAATGTTAGTTAGTAGGTAGACTTAGATCCCATTTCTGTCCCTG
CTCCCAGGAAGATTCTTAGGTCTCTTCAATCCAGCAGCCCTCCAGAGGTGTGATCAGCAGGATGCTGAGGAA
CCATGTTGCCTTTCTGTCAATCACAGCCACCTTCTGTTATCTCCTAAATGGATCTGGCTTTTCTGGAGGCTG
CCATGGTTGGAAGATGGTATCAGAGGGCCTGCCTGGGCAGTCTGTCTCCGGGCCAGGCTCAGGGACCCCTCTGCCT
CTGGCAGCCTTAACCTGTCTCTGCTAGGACCAGGCTGATTTCAAGCCAGGGAAGCAACTGGGACCCCTGAAACT
GTCCCTCCCCAGCCGCTCCCCCTCTCTGTGCCCTGGTCCCTTGCCGCCATGTGGATGCTGTTGTGATTGCTGT
TTGTATATTATCAAAATGTTTTTATATTAAAAATGTTTGGTCTGAAAATT

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FIGURE 5301

MAKVSVLNVAVLENPSPFHSPFRFEISFECSEALADDLEWKIIYVGSAESEEFDQILDVSVLVGPVPAGRHMVFVQ
ADAPNPSLIPETDAVGVTIVVLITCTYHGQEFIRVGYYVNNYLNPELRENPPMKPDFSQLQRNILASNPRVTRFH
INWDNNMDRLEAIETQDPSLGCGLPLNCTPIKGLGLPGCIPGLLPENSMDCI

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FIGURE 5302

GGAAGCGCAGCAACTCGTGTCTGAGCGCCCGGCGGAAAAACCGAAGTTGGAAGTGTCTCTTAGCAGCGCGCGGAGA
AGAACGGGGAGCCAGCATCATGGCAGAACAGGATGTGGAAAAACGATCTTTTGGATTACGATGAAGAGGAAGAGCC
CCAGGCTCCTCAAGAGAGCACACCAGCTCCCCCTAAGAAAGACATCAAGGGATCCTACGTTTCCATCCACAGCTC
TGGCTTCCGGGACTTTCTGCTGAAGCCGGAGCTCCTGCGGGCCATCGTGGACTGTGGCTTTGAGCATCCTTCTGA
GGTCCAGCATGAGTGCATTCCCCAGGCCATCCTGGGCATGGACGTCTGTGCCAGGCCAAGTCCGGGATGGGCAA
GACAGCGGTCTTCGTGCTGGCCACCCTACAGCAGATTGAGCCTGTCAACGGACAGGTGACGGTCTGTGTCATGTG
CCACACGAGGGAGCTGGCCTTCCAGATCAGCAAGGAATATGAGCGCTTTTCCAAGTACATGCCCAGCGTCAAGGT
GTCTGTGTTCTTCGGTGGTCTCTCCATCAAGAAGGATGAAGAAGTGTGAAGAAGAACTGTCCCCATGTCTGTGGT
GGGGACCCCGGGCCGCATCCTGGCGCTCGTGCGGAATAGGAGCTTCAGCCTAAAGAATGTGAAGCACTTTGTGCT
GGACGAGTGTGACAAGATGCTGGAGCAGCTGGACATGCGGCGGGATGTGCAGGAGATCTCCGCCTGACACCACA
CGAGAAGCAGTGTCATGATGTTTACGCGCCACCCTGAGCAAGGACATCCGGCCTGTGTGCAGGAAGTTTCATGCAGGA
TCCCATGGAGGTGTTTGTGGACGACGAGACCAAGCTCACGCTGCACGGCCTGCAGCAGTACTACGTCAAACCTCAA
AGACAGTGAGAAGAACCGCAAGCTCTTTGATCTCTTGGATGTGCTGGAGTTTAACCAGGTGATAATCTTCGTCAA
GTCAGTGCAGCGCTGCATGGCCCTGGCCAGCTCCTCGTGGAGCAGAACTTCCCGGCCATCGCCATCCACCGGGG
CATGGCCCAGGAGGAGCGCCTGTCACGCTATCAGCAGTTCAAGGATTTCCAGCGGCGGATCCTGGTGGCCACCAA
TCTGTTTGGCCGGGGGATGGACATCGAGCGAGTCAACATCGTCTTTAACTACGACATGCCTGAGGACTCGGACAC
CTACCTGCACCGGGTGGCCCGGGCGGGTCTGCTTTGGCACCAGGCGCTAGCCATCACTTTTGTGTCTGACGAGAA
TGATGCCAAAATCCTCAATGACGTCCAGGACCGGTTTGAAGTTAATGTGGCAGAACTTCCAGAGGAAATCGACAT
CTCCACATACATCGAGCAGAGCCGGTAACCACCACGTGCCAGAGCCGCCACCCGGAGCCGCCCGCATGCAGCTT
CACCTCCCCTTTCCAGGCGCCACTGTTGAGAAGCTAGAGATTGTATGAGAATAAACTTGTATTATG

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FIGURE 5303

ACGCGCGCTCCTCTGGCCGCCCCCTCCCTCCGCGCGGGGACCCCTGGCGGGCGGCAGGAGGACATGGCCAGCGACG
CCGTGCAGAGTGAGCCTCGCAGCTGGTCCCTGCTAGAGCAGCTGGGCCTGGCCGGGGCAGACCTGGCGGCCCCCG
GGGTACAGCAGCAGCTGGAGCTGGAGCGGGAGCGGCTGCGGCGGGAAATCCGCAAGGAGCTGAAGCTGAAGGAGG
GTGCTGAGAACCTGCGGCGGGCCACCACTGACCTGGGCGCAGCCTGGGCCCCGTAGAGCTGCTGCTGCGGGGCT
CCTCGCGCCGCTCGACCTGCTGCACCAGCAGCTGCAGGAGCTGCACGCCCACGTGGTGCTTCCCGACCCGGCGG
CCACCCACGATGGCCCCCAGTCCCCTGGTGCGGGTGGCCCCACCTGCTCGGCCACCAACCTGAGCCGCGTGCCG
GCCTGGAGAAGCAGTTGGCCATTGAGCTGAAGGTGAAGCAGGGGGCGGAGAACATGATCCAGACCTACAGCAATG
GCAGCACCAAGGACCGGAAGCTGCTGCTGACAGCCCAGCAGATGTTGCAGGACAGTAAGACCAAGATTGACATCA
TCCGCATGCAACTCCGCCGGGCGCTGCAGGCCGGCCAGCTGGAGAACCAGGCAGCCCCGGATGACACCCAAGGGA
GTCCTGACCTGGGGGCTGTGGAGCTGCGCATCGAAGAGCTGCGGCACCACTTCCGAGTGGAGCACGCGGTGGCCG
AGGGTGCCAAGAACGTACTGCGCCTGCTCAGCGCTGCCAAGGCCCGGACCGCAAGGCAGTCAGCGAGGCCCAGG
AGAAATTAACAGAATCCAACCAGAAGCTGGGGCTGCTGCGGGAGGCTCTGGAGCGGAGACTTGGGGAGCTGCCCG
CCGACCACCCCAAGGGGCGGCTGCTGCGAGAAGAGCTCGCTGCGGCCTCCTCCGCTGCCTTACGACCCCGCTTG
CCGGGCCCTTTCCCGCCACGCACTACAGCACCTGTGCAAGCCCCGCGCCGCTCACAGGGACCCCTGGAGGTACGAG
TGGTGGGCTGCAGAGACCTCCCAGAGACCATCCCGTGGAACCCCTACCCCTCAATGGGGGGACCTGGGACCCAG
ACAGCCGCCCCCCTTCTGAGCCGCCAGCCCGGGGCTTTACAGCCGAAGCGGAAGCCTCAGTGGCCGGAGCA
GCCTCAAAGCAGAAGCCGAGAACACCACTGAAGTCAGCACTGTGCTTAAGCTGGATAACACAGTGGTGGGGCAGA
CGTCTTGGAAGCCATGTGGCCCCAATGCCTGGGACCAGAGCTTCACTCTGGAGCTGGAAAGGGCACGGGAACCTGG
AGTTGGCTGTGTTCTGGCGGGACCAGCGGGGCTGTGTGCCCTCAAATTCTGAAGTTGGAGGATTTCTTGGACA
ATGAGAGGCATGAGGTGCAGCTGGACATGGAACCCAGGGCTGCCTGGTGGCTGAGGTACCTTCCGCAACCCCTG
TCATTGAGAGGATTCTCGGCTCCGACGGCAGAAGAAAATTTCTCCAAGCAGCAAGGGAAGGCGTTCCAGCGTG
CTAGGCAGATGAACATCGATGTGCGCCACGTGGGTGCGGCTGCTCCGGAGGCTCATCCCCAATGCCACGGGCACAG
GCACCTTTAGCCCTGGGGCTTCTCCAGGATCCGAGGCCCGGACCACGGGTGACATATCGGTGGAGAAGCTGAACC
TCGGCACTGACTCGGACAGCTCACCTCAGAAGAGCTCGCGGGATCCTCCTTCCAGCCCATCGAGCCTGAGCTCCC
CCATCCAGGAATCCACTGCTCCCGAGCTGCCTTCGGAGACCCAGGAGACCCAGGCCCGCCCTGTGCAGCCCTC
TGAGGAAGTCACCTCTGACCCCTCGAAGATTTCAAGTTCTTGGCGGTGCTGGGCCGGGGTCATTTTGGGAAGGTGC
TCCTCTCCGAATTCGGGCCAGTGGGGAGCTGTTGCGCCATCAAGGCTCTGAAGAAAGGGGACATTGTGGCCCGAG
ACGAGGTGGAGAGCCTGATGTGTGAGAAGCGGATATTGGCGGCAGTGACCAGTGCGGGACACCCCTTCTGGTGA
ACCTCTTCGGCTGTTTCCAGACACCGGAGCACGTGTGCTTCGTGATGGAGTACTCGGCCGGTGGGGACCTGATGC
TGCACATCCACAGCGACGTGTTCTCTGAGCCCCGTGCCATCTTTTATTCCGCTGCGTGGTGCTGGGCCTACAGT
TTCTTACGAACACAAGATCGTCTACAGGGACCTGAAGTTGGACAATTTGCTCCTGGACACCGAGGGCTACGTCA
AGATCGCAGACTTTGGCCTCTGCAAGGAGGGGATGGGCTATGGGGACCGGACCAGCACATTCTGTGGGACCCCGG
AGTTCTTGGCCCCCTGAGGTGCTGACGGACACGTGCTACACGCGAGCTGTGGACTGGTGGGGACTGGGTGTGCTGC
TCTACGAGATGCTGGTTGGCGAGTCCCCATTCCAGGGGATGATGAGGAGGAGGTCTTCGACAGCATCGTCAACG
ACGAGGTTGCTACCCCCGCTTCTGTGCGCCGAAGCCATCGGCATCATGAGAAGGCTGCTTCGGAGGAACCCAG
AGCGGAGGCTGGGATCTAGCGAGAGAGATGCAGAAGATGTGAAGAAACAGCCCTTCTTCAGGACTCTGGGCTGGG
AAGCCCTGTTGGCCCCGGCGCCTGCCACCGCCCTTTGTGCCACGCTGTCCGGCCGCACCGACGTGAGCAACTTCG
ACGAGGAGTTACCGGGGAGGCCCCACACTGAGCCCGCCCCGCGACGCGCGGCCCTCACAGCCGCGGAGCAGG
CAGCCTTCTTGGACTTCGACTTCGTGGCCGGGGGCTGCTAGCCCCCTCCCCTGCCCTGCCCTGCCCTGCCCTGCCG
AGAGCTCTTAGTTTTTAAAAAGGCCTTTGGGATTTGCCGG

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FIGURE 5304

MASDAVQSEPRSWSLLEQLGLAGADLAAPGVQQQLELERERLRREIRKELKLKEGAENLRRATTDLGRSLGPVEL
LLRGSSRRDLLHQQLQELHAHVLPDPAATHDGPQSPGAGGPTCSATNLSRVAGLEKQLAIELKVKGGAENMIQ
TYSNGSTKDRKLLLTAAQMLQDSKTKIDIIRMQLRRALQAGQLENQAAPDDTQGSDDLGAVELRIEELRHHFRVE
HAVAEGAKNVLRLLSAAKAPDRKAVSEAQEKLTESNQKLGLLREALERRLGELPADHPKGRLLREELAAASSAAF
STRLAGPFPATHYSTLCKPAPLTGTLEVRVVGCRDLPETIPWNPTPSMGGPGTDPDSRPFFLSRPARGLYSRGSL
SGRSSLKAEAEANTSEVSTVLKLDNTVVGQTSWKPCGPNAWDQSFTLELERARELELAVFWRDQRLCALCKFLKLE
DFLDNERHEVQLDMEPQGCLVAEVTFRNPVIERIPRLRRQKKIFSKQQGKAFQARQMNIDVATWVRLRLRLIPN
ATGTGTFSPGASPGSEARTTGDISVEKLNLTGDSOSSPQKSSRDPPSSPSSLSSPIQESTAPELPSETQETPGA
LCSPLRKSPLTLEDFFKFLAVLGRGHFGKVLLSEFRPSGELFAIKALKKGDIVARDEVESLMCEKRILAAVTSAGH
PFLVNLFQCFQTPHEVCFVMEYSAGGDLMLHIHSDVFSEPRAFYFYSACVVLGLQFLHEHKIVYRDLKLDNLLD
EGYVKIADFGLCKEGMYGDRSTSTFCGTPEFLAPEVLTDSYTRAVDWWGLGVLLYEMLVGESFPFGDDEEEVFD
SIVNDEVRYPRFLSAEAGIMRRLRRNPERRLGSSERDAEDVKKQPFRTLGWEALLARRLPPFPVPTLSGRTD
VSNFDEEFTGEAPTLSPPRDARPLTAAEQAAFLDFDFVAGGC

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FIGURE 5305

CACGGGGAGGCGGAGGCAGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGAGCAGATCTTCTGGTGACCCAC
TTCTCGCTGCTCATGCCGCTGGGACTGGGGCGGGCGGAAAAAGGCGCCCCCTCTAGTGGAAAATGAGGAGGCTGAG
CCAGGCCGTGGAGGGCTGGGCGTGGGGGAGCCAGGGCCTCTGGGCGGAGGTGGGTGGGGGGCCCCCAAATGGGC
TTGCCCCCCCCCTCCCCAGCCCTGCGGGCCCCGCTCGTGTTCCACACCCAGCTGGCCCATGGCAGTCCCAGTGGC
CGCATCGAGGGCTTCACCAACGTCAAGGAGCTGTATGGCAAGATCGCCGAGGCCTTCGCCCTGCCAACTGCCGAG
GTGATGTTCTGCACCCTGAACACCCACAAAGTGGACATGGACAAGCTCCTGGGGGGCCAGATCGGGCTGGAGGAC
TTCATCTTCGCCCCACGTGAAGGGGCGAGCGCAAGGAGGTGGAGGTGTTCAAQTCGGAGGATGCACCTCGGGCTCACC
ATCAGCGACAACGGGGCTGGCTACGCCTTCATCAAGCGCATCAAGGAGGGCAGCGTGATCGACCACATCCACCTC
ATCAGCGTGGGCGACATGATCGAGGCCATTAACGGGCAGAGCCTGCTGGGCTGCCGGCACTACGAGGTGGCCCCGG
CTGCTCAAGGAGCTGCCCCGAGGCCGTACCTTCACGCTGAAGCTCACGGAGCCTCGCAAGGCCTTCGACATGATC
AGCCAGCGTTTCAGCGGGTGGCCGCCCTGGCTCTGGCCCACAACCTGGGCACTGGCCGAGGGACCCTGCGGCTCCGA
TCCCCGGGGCCCCGCCACGGTGGAGGATCTGCCCTCTGCCTTTGAAGAGAAGGCCATTGAGAAGGTGGATGACCTG
CTGGAGAGTTACATGGGTATCAGGGACACGGAGCTGGCGGCCACCATGGTGGAGCTGGGAAAGGACAAAAGGAAC
CCGGATGAGCTGGCCGAGGCCCTGGACGAACGGCTGGGTGACTTTGCCTTCCCTGACGAGTTTCGTCTTTGACGTC
TGGGGCGCCATTGGGGACGCCAAGGTCGGCCGCTACTAGGACTGCCCCCGGACCCTGCGATGATGACCCGGGCGC
AACCTGGTGGGGGCCCCCAGCAGGGACACTGACGTCAGGACCCGAGCCTCCAGCCTGAGCCTAGCTCAGCAGCCC
AAGGACGATGGTGAGGGGAGGTGGGGCCAGGCCCCCTGCCCCGCTCCAATCGGTACCATCCCCCTCCCTGGTTCCC
AGTCTGGCCGGGGTCCCCGGCCCCCTGTGCCCTGTTCCCCACCTACCTCAGCTGGGTGAGGCACAGGGAGGGGA
GGGATCAGCCAAATTGGGCGGCCACCCCCGCTCCACCACTTTCCACCATCAGCTGCCAAACTGGTCCCTCTGTC
TCCCTGGGGCCTTGGGTTCTGTTTGGGGGTGATGACCTTCCTAGTTTCCTGACGCAGGGAATACAGGGGAGAGGG
TTGTCCTTCCCCCAGCAAATGCAATAATGCCCTCACCCCTCCTGAGAGGAGCCCCCTCCCTGTGGAGCCTGTTA
CCTCCGATTTGACACGAGTCTGCTGTGAACCCCGCAACCTCCTCCCCACCTCCCATCTCTCCTTCCAGGCCCAT
CCCTGGCCCAGAGCAGGAGGGAGGGAGGGACGATGGCGGTGGGTTTTTGTATCTGAATTTGCTGTCTTGAACATA
AAGAATCTATCTGCTGTT

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FIGURE 5306

MPLGLGRRKKAPPLVENEAEPEGRGGLGVGEPGLGGGSGGPQMGLPPPPPALRPRLVFHTQLAHGSPTGRIEG
FTNVKELYGKIAEAFRLPTAEVMFCTLNTHKVDMDKLLGGQIGLEDFIFAHVKGQRKEVEVFKSEDALGLTITDN
GAGYAFIKRIKEGSVIDHIHLISVGDMIEAINGQSLGCRHYEVARLLKELPRGRTFTLKLTEPRKAFDMISQRS
AGGRPGSGPQLGTGRGTLRLRSRGPATVEDLPSAFEEKAIEKVDDLLESYMGIRDTELAATMVELGKDKRNPDEL
AEALDERLGDFAFPDEFVFDVWGAIGDAKVGRY

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FIGURE 5307

GTTTAGTCTATCGCTGCGGTTGCGAGCGCTGTAGGGAGCCTGTGCTGTGCCGCGCAGTTAGGCAGCAGCAGCCGC
GGAGCAGTAGCCGCCGTGGGAGGGAGCCATGAAGCATTACGAGGTGGAGATTCTGGACGCAAAGACAAGGGAGAA
GCTGTGTTTCTTGGACAAGGTGGAGCCCCACGCCACCATTGCGGAGATCAAGAACCTCTTCACTAAGACCCATCC
GCAGTGGTACCCCGCCCGCCAGTCCCTCCGCCTGGACCCCAAGGGCAAGTCCCTGAAGGATGAGGATGTTCTGCA
GAAGCTGCCCCTGGGACACCACGGCCACACTGTACTTCCGGGACCTGGGGGCCCAGATCAGCTGGGTGACGGTCTT
CCTAACAGAGTACGCGGGGCCCTTTTCACTACCTGCTCTTCTACTTCCGAGTGCCCTTCATCTATGGCCACAA
ATATGACTTTACGTCCAGTCGGCATAACAGTGGTGCACCTCGCCTGCATCTGTCACTCATTCCACTACATCAAGCG
CCTGCTGGAGACGCTCTTCGTGCACCGCTTCTCCCATGGCACTATGCCTTTGCGCAACATCTTCAAGAACTGCAC
CTACTACTGGGGCTTCGCCGCGTGATGGCCTATTACATCAATCACCCCTCTCTACACTCCCCCTACCTACGGAGC
TCAGCAGGTGAAACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCG
GGACCTGCGGGCCCGCTGGGTCCAAGACGCGGAAGATCCCATACCCACCAAGAACCCCTTCACGTGGCTCTTCCT
GCTGGTGTCTGCCCCAACTACACCTACGAGGTGGGGTCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCC
AGTGGCCCTGTTCTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAA
GGAGTTCGGGACTACCCGCCCCTGCGCATGCCCATCATCCCTTCCTGCTCTGAGCGCTCACCCCTGCTGAGGC
TCAGCCCCTCAACCCGGTGGCATTCTGGGGGAGGAGTGGGGCCCACAGCTCTCCAGCACCCGGAATAAAGCCCGC
CTGCCCCAGTC

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FIGURE 5308

GGCACGAGGCGGGGCGCCGCTGAGCCAAGTGGGCCACCCGGGCACGGCCACGCTCCCGGGTCACGTGACACGGAG
GGGGCCGAATTCTGCTGGAGGCAGCGCCATATCCTGGAGGTGAAGGTACCACCTCATGGGAGACCCCCGCGGCCGC
CGCCCCCGCTGGGAGCTTATTCCCCTCCTTCTGCTCCTGGCCTGCGGGACGCTGGTGGCCGCCTTGCTGGGGCGC
CGCTCACCGCCTGGGGCTCTTCTATCAGCTGCTGCACAAGGTGGACAAGGCAAGCGTCCGGCATGGCGGAGAGAA
CGTGGCCGCTGTGCTGAGGGCCCATGGTGTGCGGTTTCATCTTCACGCTGGTGGTGGGCACATTTCCCCGCTGCT
GGTGGCCTGTGAGAACTGGGCATCCGTGTGGTGGACACACGCCATGAGGTACAGGCCGTCTTTGCTGCTGATGC
TATGGCCCCGCTGTCCGGGACGGTGGGCGTGGCGGCAGTGACAGCAGGCCCTGGCCTCACCAACACGGGTGACTGC
GGTGAAGAATGCTCAGATGGCTCAGTCCCCAATCCTGCTTCTGGGTGGGGCTGCCAGCACTCTGCTGCAGAACCG
GGGTGCGCTCCAGGCTGTTGATCAGCTGTCCCTTTTCCGGCCACTCTGTAAGTTTTGTGTCTGTGCGGAGGGT
GCGGGACATTGTGCCACCCTGAGGGCCGCGATGGCTGCCGCCAGTCGGGCACCCCAAGTCCGGTGTGTTGTGGA
GCTGCCCCGTTGACGTGCTGTACCCCTACTTCATGGTCCAGAAGGAGATGGTGCCAGCCAAGCCACCCAAGGGCCT
CGTGGGCCGAGTGGTCTCCTGGTATTTAGAGAATTACCTGGCCAACCTCTTTGACAGGAGCCTGGGAGCCTCAGCC
CGAGGGACCGCTGCCCTGGACATCCCCAGGCTTCCCCGACAGGTTACAGCGCTGTGTGGAGATCCTGAGCCG
GGCCAAGAGGCCTCTGATGGTGTGGGAGTCAGGCCCTGCTCACCCCAACGTCCTGCCGACAAGCTTCGGGCTGC
CGTGGAGACCTTGGGTGTTCCCTGCTTCCCTGGAGGGATGGCACGGGGGCTGTTAGGCCGCAACCACCCCTCCA
CATCCGGGAGAACCAGTGCAGGCCCTGAAGAAGGCGGACGTCATTGTCTAGCAGGAAGTGTGTGTGACTTCCG
CCTATCCTATGGCCGTGTCTCAGCCACAGCAGCAAGATCATCATCGTCAATCGTAATCGGGAAGAGATGTTGCT
CAACTCAGACATCTTCTGGAAGCCCCAGGAGGCTGTGCAGGGAGATGTGGGTTCCCTTCGTGCTGAAGTTAGTGGA
GGGCCTTCAGGGCCAGACCTGGGCCCCAGACTGGGTGGAGGAGCTGCGGGAAGCCGACCGGCAGAAGGAGCAGAC
CTTTCGGGAGAAGGCAGCGATGCCTGTGGCCAGCACCTGAACCCAGTGCAGGTGCTGCAGCTGGTGGAGGAAAC
GCTACCTGACAACTCAATTCTGGTGGTGGATGGCGGGGACTTCGTGGGCACTGCTGCCCATCTGGTACAGCCCCG
CGGCCCCCTGCGCTGGCTCGATCCTGGGGCCTTTGGGACTCTGGGAGTTGGTGAGGATTGCACTTGGGGCCAA
GCTGTGCCGGCCAGATGCTGAGGTCTGGTGCCTGTTTGGGACGGAGCTTTTGGCTACAGCCTCATCGAATTTGA
TACATTGCTCAGACACAAGATCCCAGTGATGGCCTTGGTAGGGAATGATGCTGGCTGGACACAGATTTCTCGGGA
GCAGGTGCCCTCTCTGGGCAGCAACGTGGCCTGTGGCCTGGCCTACACTGATTATACAAGGCAGCCATGGGTCT
GGGGGCCCCGGGCTTGTGCTCTCACGGGAGAACGAGGATCAGGTGGTCAAGGTGCTGCACGATGCCAGCAGCA
GTGCCGAGACGGCCACCCGTTGTGGTCAACATCCTCATTGGGAGGACGGACTTCCGCGATGGCTCCATTGCTGT
ATAGGGCCTTGTGGGTGAGGACGCTTGGCTGCCTTCCCTCCCCCTGGACTGTGTCCAGCTGGTTTGGAGTCTCATC
ATTGCTTGCCCTGGGCCTATCCATGAGGCCAGTGACTCCACAACCTCCCTGAGGAGGGGATGGAGGGGTCAA
TCTCAGAGAGGCTCTCTTGTGAGCTCTTGGACCCTCCTCTTACGGACCCAACGTGTGCCGTTTGTCCCCCTCTT
ATGGAGACTGAATAAACACCTCTGGCCCATGTAGGCCCAAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5309

METPAAAAPAGSLFPSFLLACGTLVAALLGAAHRLGLFYQLLHKVDKASVRHGGENVAAVLRAHGVRFI FTLVG
GHISPLL VACEKLGIRVVDTRHEVTAVFAADAMARLSGTVGVAAVTAGPGLTNTVTAVKNAQMAQSP ILLLGAA
STLLQNRGALQAVDQLSLFRPLCKFCVSVRRVRDIVPTLRAAMAAQSGTPGPVFVELPVDVLYPYFMVQKEMVP
AKPPKGLVGRVSWYLENYLANLFAGAWEPQPEGPLPLDIPQASPPQVQRCVEILSRAKRPLMVLGSQALLTPTS
ADKLRAAVETLGVPCFLGGMARGLLGRNHPLHIRENRS AALKKADVIVLAGTVCDFRLSYGRVLSHSSKIIIVNR
NREEMLLNSDIFWKPQEAVQGDVGSFVLKLVEGLQGQTWAPDWVEELREADRQKEQTFREKAAMPVAQHLNPVQV
LQLVEETLPDNSILVVDGGDFVGTAAHLVQPRGPLRWLDPGAFGTLGVGAGFALGAKLCRPDAEVWCLFGDGAFG
YSLIEFDTFVRHKIPVMALVGNDAGWTQISREQVPSLGSNVACGLAYTDYHKAAMGLGARGLLLSRENEDQVVKV
LHDAQQQCRDGHPVVVNILIGRTDFRDGSI AV

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FIGURE 5310A

GCGGCGCGGAGGCTGGCCCGGGACGCGCCCGGAGCCAGGGAAGGAGGGAGGAGGGGAGGGTGC GCGGCCGCGCCG
CATGGGGCCGGGGGCGCCGTGGCCGCGCCGCGCCGCTCGCCCGATGTCGCCGCCACCGCCACCGCCACCCGTGCG
GGCGCTGCCCCCTGCTGCTGCTGCTAGCGGGGCGGGGGCTGCAGCCCCCCTTGCTTGACGGAAGCCCGTGTGC
AAATGGAGGTCGTTGCACCCAGCTGCCCTCCCGGGAGGCTGCCGTGCTGCCCCGCTGGCTGGGTGGGTGAGCG
GTGTGAGCTGGAGGACCCCTGTCACTCAGGCCCCGTGTGCTGGCCGTGGTGTCTGCCAGAGTTTCACTGGTGGCTGG
CACCGCCCCGATTCTCATGCCGCTGCCCGCTGGCTTCCGAGGCCCTGACTGCTCCCTGCCAGATCCCTGCCCTCAG
CAGCCCTTGTGCCACGGTGCCGCTGCTCAGTGGGGCCCGATGGACGCTTCCCTGTCTCTGCCACCTGGCTA
CCAGGGCCGCGAGCTGCCGAAGCGACGTGGATGAGTGCCGGGTGGGTGAGCCCTGCCGCCATGGTGGCACCTGCCT
CAACACACCTGGCTCCTTCCGCTGCCAGTGTCCAGCTGGCTACACAGGGCCACTATGTGAGAACCCCGCGGTGCC
CTGTGCACCCCTACCATGCCGTAACGGGGGCACCTGCAGGCAGAGTGGCGACCTCACTTACGACTGTGCCTGTCT
TCCTGGGTTTGAGGGTCAGAATTGTGAAGTGAACGTGGACGACTGTCCAGGACACCGATGTCTCAATGGGGGGAC
ATGCGTGGATGGCGTCAACACCTATAACTGCCAGTGCCCTCCTGAGTGGACAGGCCAGTTCTGCACGGAGGACGT
GGATGAGTGTGAGCTGCAGCCCAACGCCTGCCACAATGGGGGTACCTGCTTCAACACGCTGGGTGGCCACAGCTG
CGTGTGTGTCAATGGCTGGACAGGCGAGAGCTGCAGTCAGAATATCGATGACTGTGCCACAGCCGTGTGCTTCCA
TGGGGCCACCTGCCATGACCGCGTGGCTTCTTTCTACTGTGCTGCCCCATGGGCAAGACTGGCTTCTGTGTCA
CCTGGATGACGCTGTGTGTCAGCAACCCCTGCCACGAGGATGCTATCTGTGACACAAATCCGGTGAACGGCCGGGC
CATTTGCACCTGTCTTCCCGCTTACGGGTGGGGCATGTGACCAGGATGTGGACGAGTGTCTATCGGCGCCAA
CCCCTGCGAGCACTTGGGCAGGTGCGTGAACACGCAGGGCTCCTTCCGTGCCAGTGCGGTCGTGGCTACACTGG
ACCTCGCTGTGAGACCGATGTCAACGAGTGTCTGTGCGGGGCCCTGCCGAAACAGGCCACGTGCCTCGACCGCAT
AGGCCAGTTACCTGTATCTGTATGGCAGGCTTACAGGAACCTATTGCGAGGTGGACATTGACGAGTGTGAGAG
TAGCCCCTGTGTCAACGGTGGGGTCTGCAAGGACCGAGTCAATGGCTTCACTGTCACCTGCCCCCTCGGGCTTCA
CGGCTCCACGTGTGAGCTGGACGTGGACGAATGCGCCAGCAGCCCTGCAGGAATGGCGCCAAATGCGTGGACCA
GCCCCGATGGCTACGAGTGCCGCTGTGCCGAGGGCTTGGAGGACGCTGTGTGATCGCAACGTGGACGACTGCTC
CCCTGACCCATGCCACCATGGTGCCTGCGTGGATGGCATCGCCAGCTTCTCATGTGCTGTGCTCCTGGCTACAC
GGGCACACGCTGCGAGAGCCAGGTGGACGAATGCCGAGCCAGCCCTGCCGCCATGGCGGCAAATGCCTAGACCT
GGTGGACAAGTACCTCTGCCGCTGCCCTTCTGGGACCACAGGTGTGAAGTGAACATTGACGACTGTGC
CAGCAACCCCTGCACCTTTGGAGTCTGCCGTGATGGCATCAACCGCTACGACTGTGTCTGCCAACCTGGCTTCA
AGGGCCCCCTTTGTAACGTGGAGATCAATGAGTGTGCTTCCAGCCCATGCGGCGAGGGAGGTTCTGTGTGGATGG
GGAATGGCTTCCGCTGCCTCTGCCCGCTGGCTCCTTCCCCCACTCTGCCTCCCCCGAGCCATCCCTGTGC
CCATGAGCCCTGCAGTCACGGCATCTGCTATGATGCACCTGGCGGGTTCGCTGTGTGTGTGAGCCTGGCTGGAG
TGGCCCCGCTGCAGCCAGAGCCTGGCCCGAGACGCTGTGAGTCCAGCCGTGCAGGGCCCGTGGGACATGCAG
CAGCGATGGAATGGGTTTTCACTGCACCTGCCCGCTGGTGTCCAGGGACGTCACTGTGAACCTCTCTCCCCCTG
CACCCGGAACCCCTGTGAGCATGGGGGCGCTGCGAGTCTGCCCTGGCCAGCTGCCTGTCTGCTCCTGCCCCCA
GGGCTGGCAAGGCCACGATGCCAGCAGGATGTGGACGAGTGTGCTGGCCCCGACCCCTGTGGCCCTCATGGTAT
CTGCACCAACCTGGCAGGGAGTTTCAGCTGCACCTGCCATGGAGGGTACACTGGCCCTTCTGCGATCAGGACAT
CAATGACTGTGACCCCAACCCATGCCTGAACGGTGGCTCGTGCCAAGACGGCGTGGGCTCCTTTCTGCTCCTG
CCTCCCTGGTTTTCGCCGGCCACGATGCGCCCGCATGTGGATGAGTGCCTGAGCAACCCCTGCCGCCCCGGCAC
CTGTACCGACCAGTGGCCTCCTTCACTGCACCTGCCCGCCAGGCTACGGAGGCTTCCACTGCCAACAGGACCT
GCCCCACTGCAGCCCCAGCTCCTGCTTCAATGGCGGGACCTGTGTGGACGGCGTGAACCTGTTTCACTGCCTGTG
CCGTCCCGGCTACACAGGAGCCCACTGCCAACATGAGGCAGACCCCTGCCTCTCGCGGCCCTGCCTACACGGGGG
CGTCTGCAGCGCCGCCACCCCTGGCTTCCGCTGCACCTGCCTCGAGAGCTTACAGGGCCCCGAGTGCCAGACGCT
GGTGGATTGGTGCAGCCGCCAGCCTTGTCAAACGGGGGTGCTGCGTCCAGACTGGGGCTATTGCTTTGTCC
CCCTGGATGGAGCGGACGCTCTGTGACATCCGAAGCTTGCCTGCGAGGGAGGCCGAGCCAGATCGGGGTGCG
GCTGGAGCAGCTGTGTGAGCGGGTGGGCAGTGTGTGGATGAAGACAGCTCCCACTACTGCGTGTGCCAGAGGG
CCGTACTGGTAGCCACTGTGAGCAGGAGGTGGACCCCTGCTTGGCCAGCCCTGCCAGCATGGGGGGACCTGCCG
TGGCTATATGGGGGGCTACATGTGTGAGTGTCTTCTGGCTACAATGGTGATAACTGTGAGGACGACGTGGACGA
GTGTGCTTCCAGCCCTGCCAGCAGGGGGTTCATGCATTGACCTCGTGGCCCGCTATCTCTGCTCCTGTCCCCC
AGGAACGCTGGGGGTGCTCTGCGAGATTAATGAGGATGACTGCGGCCAGGCCACCGCTGGACTCAGGGCCCCG

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GTGCTACACAAATGGCACCTGCGTGGACCTGGTGGGTGGTTTCCGCTGCACCTGTCCCCAGGATACACTGGTTT
GCGCTGCGAGGCAGACATCAATGAGTGTGCTCAGGTGCCTGCCACGCGGCACACACCCGGGACTGCCTGCAGGA
CCCAGGCGGAGGTTTTCCGTTGCCTTTGTATGCTGGCTTCTCAGGTCTTCGCTGTGACACTGTCCTGTCTCCCTG
CGAGTCCCAGCCATGCCAGCATGGAGGCCAGTGGCGTCTTAGCCCCGGTCTGGGGGTGGGCTGACCTTCACCTG
TCACTGTGCCCAGCCGTTTCTGGGGTCCGCGTTGCGAGCGGGTGGCGCGCTCTTGCCGGGAGCTGCAGTGCCCGGT
GGGCGTCCCATGCCAGCAGACGCCCCGCGGGCCGCGCTGCGCCTGCCCCCAGGGTTGTGCGGGACCTCTCTGCCG
CAGCTTCCCAGGGTGC CGCGCCGGGGGCCAGCAACGCCAGCTGCGCGGCCGCCCTGTCTCCACGGGGGCTCCTG
CCGCCCCGCGCCGCTGCGCCCTTCTTCCGCTGCGCTTGC GCGCAGGGCTGGACC GGCGCGCTGCGAGGCGCC
CGCCGCGGCACCCGAGGTCTCGGAGGAGCCGCGGTGCCGCGCGCCGCTGCCAGGCCAAGCGCGGGGACCAGCG
CTGCGACCGCGAGTGCAACAGCCAGGCTGCGGCTGGGACGCGCGGCGACTGCTCGCTGAGCGTGGGCGACCCCTG
GCGGCAATGCGAGGCGCTGCAGTGCTGGCGCTCTTCAACAACAGCCGCTGCGACCCGCTGCAGCTCGCCCGC
CTGCTCTACGACAACCTTGCAGTGCACGCGCGTGGCCGCGAGCGCACTTGCAACCCGGTGTACGAGAAGTACTG
CGCCGACCCTTTGCCGACGGCCGCTGCGACCAGGGCTGCAACACGGAGGAGTGGGCTGGGATGGGCTGGATTG
TGCCAGCGAGGTGCCGGCCCTGCTGGCCCGCGCGTGTGGTGCTCACAGTGCTGCTGCCGCCAGAGGAGCTACT
GCGTTCCAGCGCCGACTTTCTGCAGCGGCTCAGCGCCATCTGCGCACTCGCTGCGCTTCCGCTGGACGCGCA
CGGCCAGGCCATGGTCTTCCCTTACCACCGGCTTAGTCTGGCTCCGAACCCCGGGCCCGTGGGAGCTGGCCCC
CGAGGTGATCGGCTCGGTAGTAATGCTGGAGATTGACAACCGGCTCTGCCTGCAGTCGCCTGAGAATGATCACTG
CTTCCCCGATGCCCAGAGCGCCGCTGACTACCTGGGAGCGTTGTGAGCGGTGGAGCGCTGGACTTCCCGTACCC
ACTGCGGGACGTGCGGGGGGAGCCGCTGGAGCCTCCAGAACCAGCGTCCGCTGCTGCCACTGCTAGTGGCGGG
CGCTGTCTTGCTGCTGGTCACTTCTGCTCTGGGTGTGATGGTGGCCCGGCGCAAGCGCGAGCACAGCACCCCTCTG
GTTCCCTGAGGGCTTCTCACTGCACAAGGACGTGGCTCTGGTCAACAAGGGCCGGCGGGAACCCGTGGGCCAGGA
CGCGCTGGGCATGAAGAACATGGCCAAGGGTGAGAGCCTGATGGGGGAGGTGGCCACAGACTGGATGGACACAGA
GTGCCCAGAGGCCAAGCGGCTAAAGGTAGAGGAGCCAGGCATGGGGGCTGAGGAGGCTGTGGATTGCCGTCACTG
GACTCAACACCATCTGGTTGCTGCTGACATCCGCGTGGCACCAGCCATGGCACTGACACCACCACAGGGCGAGCG
AGATGCTGATGGCATGGATGTCAATGTGCGTGGCCAGATGGCTTACCCCGCTAATGCTGGCTTCCTTCTGTGG
GGGGGCTCTGGAGCCAATGCCAACTGAAGAGGATGAGGCAGATGACACATCAGCTAGCATCATCTCCGACCTGAT
CTGCCAGGGGGCTCAGCTTGGGGCACGGACTGACCGTACTGGCGAGACTGCTTTGCACCTGGCTGCCCGTTATGC
CCGTGCTGATGCAGCCAAGCGGCTGCTGGATGCTGGGGCAGACACCAATGCCCAGGACCCTCAGGCCGCACTCC
CTGACACACAGCTGTACAGCCGATGCCCAGGGTGTCTTCCAGATTCTCATCCGAAACCGCTCTACAGACTTGGGA
TGCCCGCATGGCAGATGGCTCAACGGCACTGATCCTGGCGGGCCCGCTGGCAGTAGAGGGCATGGTGGAAGAGCT
CATCGCCAGCCATGCTGATGTCAATGCTGTGGATGAGCTTGGGAAATCAGCCTTACACTGGGCTGCGGCTGTGAA
CAACGTGGAAGCCACTTTGGCCCTGCTCAAAAATGGAGCCAATAAGGACATGCAGGATAGCAAGGAGGAGACCCC
CTATTCTTGGCCGCCCGCGAGGGCAGCTATGAGGCTGCCAAGCTGCTGTGGACCCTTTGCCAACCGTGAGAT
CACCGACCACCTGGACAGGCTGCCGCGGGACGTAGCCAGGAGAGACTGCACCAGGACATCGTGCGCTTGCTGGA
TCAACCCAGTGGGCCCCGCAGCCCCCGGCTCCCACGGCCTGGGGCCTCTGCTCTGTCTCTCCAGGGGCCTTCCT
CCCTGGCCTCAAAGCGGCACAGTCGGGGTCCAAGAAGAGCAGGAGGCCCCCGGGAAGGCGGGGCTGGGGCCGCA
GGGGCCCCGGGGGCGGGGCAAGAAGCTGACGCTGGCCTGCCCGGGCCCCCTGGCTGACAGCTCGGTACGCTGTG
GCCCGTGGACTCGCTGGACTCCCCGCGGCCTTTCGGTGGGCCCCCTGCTTCCCTGGTGGCTTCCCCCTTGAGGG
GCCCTATGCAGCTGCCACTGCCACTGCAGTGTCTCTGGCACAGCTTGGTGGCCAGGCCGGGCGGGTCTAGGGCG
CCAGCCCCCTGGAGGATGTGTACTCAGCCTGGGCCTGCTGAACCTGTGGCTGTGCCCTCGATTGGGCCGGCT
GCCCCACCTGCCCTCCAGGCCCTCGTTCTGCTGCCACTGGCGCCGGGACCCAGCTGCTCAACCCAGGGAC
CCCCGTCTCCCCGCAAGGAGCGGGCCCCCGCCTTACCTGGCAGTCCAGGACATGGCGAGGAGTACCCGGCGGCTGG
GGCACACAGCAGCCCCCAAGGCCCGCTTCTGCGGGTTCCAGTGAGCACCTTACCTGACCCCATCCCCGA
ATCCCCCTGAGCACTGGGCGAGCCCTCAGCTCCCTCCCTCTCAGACTGGTCCGAATCCACGCCTAGCCAGCCAC
TGCCACTGGGGCATGGCCACCACCACTGGGGCTGCTGCCCCAGCCAGCTTCCCTGTCTGTCTCCAGCTCCCT
TGCTCAGGCCCAGACCAGCTGGGGCCCCAGCCGGAAGTTACCCCAAGAGGCAAGTGTGGCCTGAGACGCTCG
TCAGTTCTTAGATCTTGGGGGCCATAAGAGACCCCCGTCTGCCTCCTTTCTTTCTGTCTCTTCTCTCTTCTT

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FIGURE 5310C

AGCCCAGGGCTTCAGTCTTCCTTTATTTATAATGGGTGGGGGCTACCACCCACCCCTCTCAGTCTTGTGAAGAGTC
TGGGACCTCCTTCTTCCCCACTTCTCTCTTCCCTCATTCCTTCTCTCTCCTTCTGGCCTCTCATTTCCTTACAC
TCTGACATGAATGAATTATTATTATTTTTATTTTTCTTTTTTTTTTACATTTGTATAGAAACAAATTCATTTA
AACAAACTTATTATTATTATTTTTTACAAAATATATATATGGAGATGCTCCCTCCCCCTGTGAACCCCCCAGTGC
CCCCGTGGGGCTGAGTCTGTGGGCCCATTCGGCCAAGCTGGATTCTGTGTACCTAGTACACAGGCATGACTGGGA
TCCCGTGTACCGAGTACACGACCCAGGTATGTACCAAGTAGGCACCCCTGGGCGCACCCACTGGGGCCAGGGGTC
GGGGGAGTGTTGGGAGCCTCCTCCCCACCCACCTCCCTCACTTCACTGCATTCCAGATGGGACATGTTCCATAG
CCTTGCTGGGGAAGGGCCCACTGCCAACTCCCTCTGCCCCAGCCCCACCCCTTGGCCATCTCCCTTTGGGAAGTAG
GGGGCTGCTGGTGGGAAATGGGAGCCAGGGCAGATGTATGCATTCCCTTGTGTCCCTGTAAATGTGGGACTACAA
GAAGAGGAGCTGCCTGAGTGGTACTTTCTCTTCCCTGGTAATCCTCTGGCCCAGCCTCATGGCAGAATAGAGGTAT
TTTTAGGCTATTTTTGTAATATGGCTTCTGGTCAAAATCCCTGTGTAGCTGAATTCCCAAGCCCTGCATTGTACA
GCCCCCACTCCCTCACCACCTAATAAAGGAATAGTTAACACTC

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FIGURE 5311

CTTTTCACAAGATGGTGCCGAAAGTGAAGAAGGAAGCTCCTGCCCCCTCCTAAAGCCGAAGCCAAAGCGAAGGCTT
TAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGATCCACACGTCACCCACCTTCCGGC
GGCCGAAGACACTGCGACTCCGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGGAGAAACAAGCTTGACC
ACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACACTTGTGT
TCATTGTGGATGTTAAAGCCAACAAGCACCAGATCAAACAGGCTGTGAAGAAGCTCTATGACATTGATGTGGCCA
AGGTCAACACCCTGATTCCGGCTGATGGAGAGAAGAAGGTATATGTTGACTGACTCCTGATTACGATGCTTTGG
ATGTTGCCAACTATATCTTTTCACCATATACATGCCTCTCTGTCAATTTCTGGTTGGGCTGGGAGGCCACACACA
GACACTGACATGACAGGGCTTGGGCAAGACTCCTGTTCTACTTATCCTTTTGAAATATTACCCCTGCCA

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FIGURE 5312

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGC GCCTCTGCGCTCCGCGCCATGGCCGGCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG
AGCTGGACGGCGAGCGCGAGCGGCGCGAGAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTCAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGCGGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAACTTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAAAGACAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACTTAACTGTATATTAAGCAAAACAGAAGAGTCTTGTTCCAACAG
AAACTCTGGAGCTCCGTGGGTCTTTCTCTTCTTGTGTAAGAAGTTCCTTTTGTTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTTCAGCTCTCTTATTTTTTCCCTTAAGTAGCATTATTCTCT
AAGGTAGGCAGGGTATTTCTAGTAAGCATACTTTCTTAAGACGGAGGCCATTTGGTTCCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCAGTATCTAGTCGTGGATATAATTAACCGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAATATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCCGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGATATTTCCTT
CATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTTCGCTGTAAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTGAGGAGTTCGAGACCAGCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATT
ATGGTGACGCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGAG
ACTGCAGTGAGCCGATATCGCACACAGCGCTCCAGCCTGGTCGACAGAGTGAGACTCCATCTCAAGAAAAAATA
AAAATAAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGAGTTC
AGTCCAATTCAGGTGAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAAACTGGCCCACTTCATTTCATACTTCAGGGAACAGCAAAT
TGAGGATTTACTTATCTAGGACTT

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FIGURE 5313

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ
KLEEAEKAADESERGMKVIENRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEERA EVS
ELKCGDLEEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLEEKLA
QAKEENVGLHQTLDTLNLNCI

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FIGURE 5314

GCTCGGTGCTGATGGACGGTGCTGGTGGCCAGTGGAGAGGCGCTGGCCGCACTTCCCGTCGGGGAGAGAGTGTAAT
TATGGCGAAGACCTACGATTACCTGTTCAAGCTGCTGCTGATCGGGGACTCGGGGGTGGGGAAGACCTGTGTCTCT
GTTCCGCTTCTCCGAGGACGCCTTCAACTCCACTTTTATCTCCACCATAGGAATTGACTTTAAAAATTAGGACCAT
AGAGCTCGATGGCAAGAGAATTAACTGCAGATATGGGACACAGCCGGTCAGGAACGGTTTCGGACGATCACAAC
GGCCTACTACAGGGGTGCAATGGGCATCATGCTGGTCTACGACATCACCAACGAGAAGTCCTTCGACAACATCCG
GAACTGGATTTCGCAACATTGAGGAGCACGCCTCTGCAGACGTCGAAAAAGATGATACTCGGGAAACAAGTGTGATGT
GAATGACAAGAGACAAGTTTCCAAGGAACGGGGAGAAAAAGCTGGCCCTCGACTATGGAATCAAGTTTCATGGAGAC
CAGCGCGAAGGCCAACATCAATGTGGAATAATGCATTTTTCCTCTCGCCAGAGATATCAAAAGCAAAAAATGGACAA
AAAATTGGAAGGCAACAGCCCCAGGGGAGCAACCAGGGAGTCAAAATCACACCGGACCAGCAGAAGAGGAGCAG
CTTTTTCCGATGTGTTCTTCTGTGAGGAACACCGCCTTACTCTGAGCCTCGCTCAGCCCAGCTGACTGTGCCTGT
TCTGAGTGAGCCCCCTACTCAGCCGGGGCCCTCCACCTCCAACGCCCCGCCCACGCCGCGGCCACCGGGCCCCAC
GGCCACCAGAATGCAATTGAGAAATCGTTTATTTTAGTAACTGTCTGATCTTTTTCAACTTTGGAGATGGAATAA
GTTAAAAATTTGCTATTTTTCTGTAAATCTGCTGAACGGGCCCCACCCACACGTTGTATATTCAGAGAGAGAGA
GGGAGTCAAGGTGTGACCGTCGACCACAGCCAGTGTGAGGCCTCTGCCTCTGGGCCTTTGCTTTGTGGCCTCACT
GCAACACAAAGCTCCACCAGGAGGCTGGTTCACGTCCCTACCAAGGAGCGAGGTCCAGAAAGGCCAGCGGTGG
TTCCAGGAGCAACAGCTCCCAAACCTGAGCAAGGCAACCGATCGCCAGGACCAGGAAGCATCACCCAGGAGATT
TGGCGCCCCACTTCCACCTCTTCTCTCAGTTTTGGACAAGTGACAAACCATTTTGCCCCCTCACTCTTCTTTTTTA
ACTGTAAACCAAGGAAAGCACAAATGAAGGAAATCCTGTGTAAAGCATTGAGAAGGAAAGAACCTGGAGCAG
CCTCTCCTGTCCACAGCCAGGGGTTAGGTCTGCAGGCCCGTCTGCGGTCCCCATCGAGCATCAAGGGGACGCTGT
GTGTGCTGCAAGTGACCCGAAAACAACCACAGCCGTCACATGGTCCTCCTGAAGTTGGGGCACCCCTCCTCTCAG
CACCAAAATGGCCCCCACTCCTTCGTGTCTCCCGCTATCTCCAAATCGGACGTTCTTTCTAGCTGAGATTTTTA
TTTTTCCACATCTGTAGTGCCATGAAGCGATTCTGTCTTTGACTTCCAATGGCAAACCTGGGTGATCGGGAACAA
GCACGTTGTACCCTTGGCTGGACATGGCCAAGACACAAGGCATTCCACGGCGGCAAGCTGACCGCACAGCAGTCT
GGCTTGATTTTTCAGCCGTCACTATTGGGTTCTGTTTTGACAGCTCTGCTGTCCCATAGGGACTGCGACTGGGACC
AGGTCAACCACGCCAGGGGGGTGTCACCAGCCTTTCTTTTTTTCTTTCTTTTTTTTTTTTCTCCTTAAGCTG
CTGTCAATCCAAACATTGGCATCATCGTTTCTTTCAATTAAACCAACATATCAGCAATAGTCTGCTCTCCCC
GGGAATCTCTAACATGCTCTGTTTACATCGATAAATGCACTTAAGGAAAAACAAACAAATTAAAGCTCATCTTAA
GTCCAAAAA

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FIGURE 5315

MAKTYDYLFKLLLLIGDSGVGKTCVLFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQIWDTAGQERFRTITT
AYYRGAMGIMLVYDITNEKSFDNIRNWIRNIEEHASADVEKMILGNKCDVNDKRQVSKERGEKLALDYGIKFMET
SAKANINVENAFFTLARDIKAKMDKKLEGNSPQGSNQGVKITPDQQRSSFFRCVLL

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FIGURE 5316

GGTGAGCTGTGCGGGGCGGCGCCCGGCCCTTGCTCAACGCCCAGCAGTCCCCACCGTCTGCTGCCGCCGCCACCGCC
CTCGGCCGCTGCCGAGGCCCTCCTGCAGCCATCATGTCCGCCAGCGCCGTCTACGTGCTGGACCTGAAGGGCAAGG
TGCTCATCTGCCGGAACCTACCGTGGCGACGTGGACATGTCTAGAGGTGGAGCACTTCATGCCCATCCTGATGGAGA
AGGAGGAGGAGGGGATGCTGTGCCCCATCCTGGCCACGGGGGGGTCCGTTTCATGTGGATCAAACACAACAACC
TGTATCTGGTTGCCACATCCAAGAAGAAGCGCTGCGTGTGCTGGTCTTTTCTTTCTCTATAAGGTGGTGCAGG
TGTTTTCCGAGTACTTCAAGGAGCTGGAGGAGGAGAGCATCCGGGACAACCTTTGTTATCATCTACGAGCTGCTGG
ACGAGCTCATGGACTTCGGCTACCCCCAGACCACCGACAGCAAGATCCTGCGAGGAGTACATCACTCAGGAAGGCC
ACAAGCTGGAAACAGGGGGCCCCGCGGCCACCAGCCACCGTCACCAACGCGGTGTCTGGCGGTCCGAAGGCATCA
AGTATCGGAAGAATGAGGTGTTCTTGAGCGTCACTCGAGTCTGTCAACCTCTTGGTCAGCGCCAACGGCAATGTCC
TGCGCAGCGAGATCGTGGGCTCCATCAAGATGCGAGTCTTCTCTCGGGCATGCCCGAGCTGCGCCTGGGCCTCA
ACGACAAGGTCTCTTTGACAACACGGGGCCGCGGCAAAAGCAAAATCCGTGGAGCTGGAGGATGTGAAGTTCCACC
AGTGTGTGCGGCTATCAGCTTCGAGAATGACCGCACCATCTCCTTCATCCCACCCGACGGCGAGTTCGAGCTCA
TGCTCTACCGTCTCAACACCCACGTCAAGCCTTTGATATGGATCGAGTCGGTGATCGAGAAGCACTCCCACAGCC
GCATCGAGTACATGATCAAGGCCAAAAGCCAGTTCAAGCGGCGGTCAACAGCCAACAACGTGGAGATCCACATTC
CCGTGCCCAATGATGCCGACTCACCCAAGTTCAAGACGACGGTGGGGAGCGTTAAGTGGGTCCCCGAGAACAGCG
AGATCGTGTGGTCCATCAAGTCTTCCCGGGCGGCAAGGAGTACCTGATGCGGGCCCCACTTCGGCCTGCCTAGTG
TGGAGGCCGAAGACAAGGAGGGCAAGCCCCCGATCAGTGTCAAGTTCGAGATCCCTTACTTCACTACCTCCGGCA
TCCAGGTGCGCTACCTGAAGATCATTGAGAAGAGTGGGTACCAGGCCCTGCCCTGGGTGCGTTATATCACGCAGA
ATGGAGATTACCAGCTCCGGACCCAGTGAGGGGCTGTGCGAGCCAACACCCCGGCCCTCGGGCTCCTGGTGGCAGC
ACCAGGGACACACCTGCCAAACCCACCAGATGGAGGGGCCCTCCTGGTCTCTGGCCACCCTTCCAGCCTCTGCCC
AGGGACTCCTGCCTTACCAGGGCATCTGCTCTGCCGTCGACACTCGTCTCAGAAGCCCCCTTTCCAGAAGAGGC
TGGTCTTCAAGAAGTCTCGTTTCTTTGCCCCCTGAAGTCAGTTTCAGGGGAAGGATGTGAAATTTTCCGTGTAGA
GGTTACAGCCTTTTATGCTGTTGAGCTCCCAGGTACCAAAAAGCTTGSCAACGCTTGCCAGCCAGCCAGCTGCA
GGTGGCATCTGCCACGAAGGAAGCGCCACGCTCGCCAGGCCAGCAGGGGCGTCGTTTGTGTCATTTTGTGAA
CGTTATGGGTTTATGGGTGTTCTTGAACTTGTCTTTGTGCATTGCTGTGTTGTGTTACCTCACTGTCCCC
ATGTCCCACCCACGTCTTACGGCACTCAGGAAGCACTTGGTGAGGACGAGCCCTCACCTTCTGTCTTCTTCC
CGGCAGCGCCGACGCGGGCCATTTACAGTCTGAGGCTGGCACCTGGCGCGCTCGGGGGCCACTGTAGCGTCTGCC
TGCTCCCTGGACTCGCAGGCCCTGCCTGTGGCGCCTTCCAGGGCCAGCCTGGGTCACGAGATGCTGTCACTCAG
CCAGATCAGTATTGACCCACCAGGGGAGGTGGGGTTTGGTGAGAGACGCCAGCCTCAGACTTTTCCCACTGAGG
GTCCAGAGAGCGGGGCCACGTGTCAACCCAGTCTGCGCTTGGTCAACCGTCTCCCCACCTGTGTGTGTTTATG
TCATAGTTACATTAAATTCCATTTCATTG

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FIGURE 5317

CCTTCAGGCCTGAATGTGGCGGCTGCCTCTGCGAATGGACGGCGTGGGAAGAGAAATGGCTTCTGCAAGGAAAGCC
AGCCGTCCTCATGCGTGATGTTTTTGGTGACTTCAGTGATGTTTCCCTTGGAAAGATTCAACAATGGAAGAAATCAGA
AACTTCCAGATCAGTAGAAATCTTACCAAATAGCACCTGGTCATAGCAGATTTCTAAAAAGAAACCAAACTCTA
GATGAGAAACACTTACTCCTGAAAGAGAACCTGTGCTCGGGAGTGGACCCAGGCTTGCCCTCATGTAGACCGCCC
ACCACTGCCTCCAGGATCCGAGCCAATGCCGCACTCATGAAGCTGGCCCAGCTGGAAACCCGGATCATGAATCGG
AAGCTGCAGAGGAATTTGTCTGACACGGAATCTGACTCAATGACCGCCGATGCTGGTCTTCCAAAGAGAGCTGAC
AGAATCCTCTCTGGGGGTGCACTCGAATCGCGTCCCAGAACACAGACAAAACCTCCCAAGATCAAGCCCGTGAA
CTTCTGTCTACCGAAAATAATGCACAGAACGCGAAGGTCTAGGTTTCTAAAGAAAGAAACAAGCACCTGTTGAA
AACATATCCCCTGAAGCACCTGCTGGGAAAGAGAGGACTTTGCAAAACCCCCAAACAGAAAGAACCTGCTAGAACAA
TTTGATTCTCCAGACAGTGACGAAGAAGAAATGAAAGTATTGCTAGGAAGCTTGATGGACTCTTCTAGAGAAAAA
AACACGAATCAAGGCTTCAGCAGCGCTAACGTCAGCGAGGAAGAAAGAAAGAAAACCTATTTTCGGTCCCATCTCAA
CTGAGAGCATTTACTGTACCCAGCGTGGAACTCTCCAGCGCAAAGCCTTCTCAGACATCACACCTGCCAACCTCC
CTGGCAGCAGACAGAACCCCTTACAGCACTCGCTCAAGAGCAGACTACCCACAGAGTCACGTTTCCAGTGACACC
GCCTCCACACGCGCTCAGTTTCCATCACAGGCGCCTTTTCAAACCTCAGTGCTTTTAAAGATGGGGCATGTCAAG
CTTGTGTCTTCCCGGGAAGGAGTGAGGCTGAGACTGTGGACGAGCCAGTCTCAGAAGGTGCTGATGACAGCCTC
GACGAGTTTAGAATAAATATTTTATCGCTTGACGGTCTGGCTCCAGCTGTCAGTGAGAACTCCGATTTGGAACAG
GAAGAGGAAAGTGCTCAGAGACAAAAACAGCTGGCAAAATCTTCAGAGCCGAGGCGTCCACTGGGCAGGATGCC
CCGAGGCAGGCCCAGGCAGGAGCTGGGCATCACAGGGAAGGCCGCTCTGCAGAGGGGGATGAGAGCGAGGTC
TCGGAGCATCTCAGTGCCAGCTCGGCTTCTGCCATCCAGCAGGACAGCACTTCCAGCATGCAGCCACCATCTGAA
GCCCCCATGGTGAACACAGTCAGCTCAGCTTATTCGAGGATTTTGAAACTCTCCAAGTCTGACAGCATCTGAG
CCAACCGCCCATTTCAAGGAGTCTCTTGACAGAACACTGGACGCTTTGTCTGAATCCTCTTCAAGTGTGAAGACA
GACCTTCCACAAACAGCCGAGTCTAGGAAAAAGTCGGGCAGGCACGTGACAAGAGTGCTTGTGAAGGACACAGCT
GTGCAGAGCCAGATCCTGCCCTTACCTACGATGAGTGGACCAAGGTGGCCAGCATGGCAGCCATGGGGCCTGCCCTG
GGAGGCGCTCAGTGGAACCCGACACCCATCGCCAATCATGTTATCAGTGCAGATGCAATAGAAGCCCTGACCGCT
TACAGCCCGGCCGCTGCTGGCACTCCATGATGTGCTGAAGCAGCAGCTGAGCCTGACGACAGCTTCCAGGCC
AGCCGGCACCTGCACGCTCCCTCCTGCGCTCCCTGGACGCGGACTCCTTCCACTACCAACCCCTGGAGGAAGCC
AAAGAGTACATTAGGTGCCACAGACCTGCCCACTGACCATGGAGGATGCCCTGGAGGAGGTGAACAAGGAGCTG
TGAGCGCCAGCAGGTGGAGCTTGACGTGACGTCTTAACAAAAGCAAAGCACCGCAGCTTCCCAGAGTTACCAGCG
CAGCACTTAAGACAGGATCTTACGGCGGGGTGGGGCTCCTGGACCGTGACCGCGCTCGTCTTCTGGGGAGTACG
ACTTGGACCGGGACCGCGACTGGGACCGGGAGCGGCTTCTGGAGGAGCGCGACCTGCTCCGACTTCTGCAGGGAA
GGGTGCCCAAGGGTCAGCAGCAGCCAGGCGTCTGGGGAGGCCACAGGAAGGGGCCCTCAGGCAGTGCCTGAGGC
AGCCTCTGCCTACCTAGATCTGGAGCGGGAGTAGGAACGGGAGCAGGAGCGCGACCTTGACCTTGAGTACGAGCC
TGAAGACTTGAGGATCTTGAGTTGGAGCGGGAGGAAGAACGCCCTCGACTCTTGATCTGCTCCGAGACCTCGA
GGGTCCGCTGTGGGGAGAGGCCTGATGATCAGGTGCCCCAGTGGATGGGCTGCACCCAGCCACCCCTGGCCCTCA
GGTTCCTAGACCACCCAGATGCAGGGGCTCTGGCTGTGGATGTGGCGCCATAGCCACAGCAACGGTACCAAGTT
CCTAAATAGTGTGGCCGAGCCTGCTGCTGTGTGAATTCAGGCCTTGTGGAAAAACCCGCCCCATAGGCACAGGCT
GTGTGAGGGTGGACGTGATGAGTGTATCTGGGGTCTGCTCCCACCCATCACAAGCTGTGGACCTGGCCCCCGG
CCACTGCAGACATCTGCGCTTTTACCTGTTCTCTTCTCCTGGCCTTCTCCTCCGCGGGGCCGATTTTTGCTCG
GAAGAACTCATAGAGGCCGTTCTGCTCCCAGCCTTCACTGTAAGACACGGCATTCGTGTGTGACCACGTGACAC
CCACCCACAAGGAAGTCGTGAAAAAGTCATCAGGAGTTAATCCACAGAACCTTGGAGAGTACATGGCCCTGTGGC
TGTGGGCTCCGAGCATGGGCGCAGTAGAGCTTGGTTCAAGTGTTCACAGGGCTGTCTCTCTGCAGCCAGTGGC
TCCTCTGGTGCCACGCCCCTTGCCACCCTGCTGTTCCGCTGAGGTGGTGGGGACCCATGGTCTGTGGAAGTGGGA
AACAGGAACACTGACTCATGGGTGGACAGGCCTGCAGCCCAGCACAGGAAGGAGGGGTGACCACTGGGAAGGGTG
GGCTGAGGGCCCTGTGGCAGCCGGCTGCTTGAGACGTGCCGCCGTGCCACACCTTCCCTAACTTCTTCTGATGTG
TCTCCATTAACAGCCCTTCATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5318

MASARKASRPMRDVFGDFSLEDSTMEIERNFQISRNLTKIAPGHSRFLKRNQTLDEKHLLKENPVLGSGPR
LASCRPPTTASRIRANAALMKLAQLETRIMNRKLQRNLSDTESDSMTADAGLPKRADRIILSGGALELASQNTDKT
SQNQARELPVTENNAQNAKVSRLKKKQAPVENISPEAPAGKERTLQTPKQKEPARTFDSPDSDEEEMKVLLGSL
MDSSREKNTNQGFSSANVSEEEERKLFSVPSQLRAFTVPSVELSSAKPSQTSHLPTSLAADRTLHSTRSRADYPQ
SHVSSDTASHTPSVSITGAFSNSVSLKMGHVKLVSPPGRSEAETVDEPVSEGADDSLDEFINILSLDGLAPAVS
ENSDLEQEEESAQRQKTAGKIFRAEASTGQDAPRQAQARSWASQGKAASAEGDESEVSEHLSASSASAIQQDSTS
SMQPPSEAPMNTVSSAYSEDFENSPSLTASEPTAHSKESLDRTLDALSESSSVKTDLPQTAESRKKSGRHVTR
VLVKDTAVQTPDPAFTYEWTKVASMAAMGPALGGAYVDPTPIANHVISADAIEALTAYSPAVLALHDVLKQQLSL
TQQFIQASRHLHASLLRSLDADSFHYHTLEEKEYIRCHRPAPLTMEDALEEVNKL

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FIGURE 5319A

GGCACGAGGGCAGACGGCGCTGGTGGTTCGATCGTGTGGCGCCGGAGGACGTTCCCCGCGGCCGGAGCCATGGAGA
TGCCGCTGCCCCCGATGACCAGGAGCTTCGAAATGTCATCGACAAGCTCGCCAGTTTCGTGGCTCGCAATGGGC
CCGAGTTTGAGAAGATGACTATGGAGAAGCAGAAGGACAACCCCAAATTCTCGTTTCTTTTCGGAGGCGAATTCT
ACAGTTACTACAAGTGCAAGCTGGCGCTGGAGCAGCAGCAGCTCATCTGCAAGCAGCAGACCCCGGAGCTGGAGC
CAGCCGCCACCATGCCACCCCTGCCACAGCCCCGCTGGCCCCCGCCGCGCCCATCCCGCCGGCCAGGGCGCGC
CATCCATGGACGAGCTCATCCAGCAGAGCCAGTGAACCTCCAGCAGCAGGAGCAGCACTTGCTGGCGCTCAGAC
AGGAGCAAGTGACAGCGGCCGTGGCCACGCGGTGGAGCAGCAGATGCAGAAGCTTCTGGAGGAGACCCAGCTAG
ACATGAACGAGTTTGACAACCTCCTGCAGCCATCATCGACACGTGCACCAAGGACGCCATCTCGGCCGGGAAGA
ACTGGATGTTTCAGCAATGCCAAGTCCCCGCCGCACTGTGAGCTGATGGCCGGCCACCTCCGGAACCGCATCACGG
CTGATGGGGCACACTTCGAGCTGCGGCTGCACCTCATCTACCTGATCAATGACGTGCTGCACCACTGCCAGCGCA
AGCAGGCCCCGGGAGCTGCTGGCCGCCCTGCAGAAGGTCGTGGTGGCCATCTACTGCACCACTTCTTGGCCGTGG
AGGAAGACAAGCAGCAGAAAGATCGCCCGCTCCTGCAGCTCTGGGAGAAAAACGGCTACTTCGATGACTCCATCA
TTCAGCAGCTACAGAGCCAGCCCTGGGGCTTGGTCAGTACCAGGCCACCTCATCAACGAGTACTCCTCAGTGG
TCCAGCCGGTGCAGCTGGCCTTCCAGCAGCAGATCCAGACCTCAAGACGCAGCAGCAGGAGTTTGTACCAGCC
TGGCCACGAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAGCTCCAGATGCCGAGATGGAGGCTGAAGTCAAGG
CCACGCTTCCACGCTGCTCCACCCCGGCCCGCAGCAGCTGCCCTGCCATCCCGCCACCAACCCAGCCTGATG
ACAGCAAGCTTCCATCCAGATGCTGGCTCTTCAGAGTACGAAGCTCCAGGAGGGGTCCAGGATCCTGCAGCTG
CCGGCCCCCGGGGCCCGGGCCACAGACAGATCCCAACAAAGCCCCCTTGGTTTGACAGCCTCACCCCG
TGGCTCCTTGGGGCCAGCAGCAGCCGCCAGAGCAGCCACCTACCCGCACCAACAGGGCGGCCACCCCACTGCC
CCCCCTGGAACAACAGCCATGAGGGCATGTGGGGCAGCAGCGCGGTGACCCCGGCTGGAACGGCCAGCGCGACG
CGCCCTGGAACAACAGCCGACGCGCCTGGAACAGCCAGTTCGAGGGCCCTGGAACAGCCAGCAGCAGCAGC
CGCCCTGGGGCGGGGGCCAGCGCAGCCACCTTCCGATGCAGCGGCCCCACACTTCCGGGGGCCCTTCCCGC
CCCACAGCAGCAGCCGCACTTCAACCAGCCTCCGACCCCCCAACTTCAACCGCTTCCCGCCCCGCTTCATGC
AGGACGACTTCCCGCCACGGCACCCCTTCGAGCGGCCCTATCCCCACCGCTTCGACTACCCCAAGGGGACT
TCCCTGCCGAAATGGGGCCCCCTCACCAACCCCTGGCCACCGCATGCCTCATCTGGCATCAACGAGCAGCCGC
CTTGGGCTGGACCCAGCAGCCTGACTTCGGCCCTCCCCCATGGCTTCAACGGGAGCCCCACACATGCGGC
GACAGGGCCCGCCCCACATCAACCAGATGACCCAGCCTGGTCCCCAATGTGCCCTACTTCGATCTCCCTGCTG
GGCTGATGGCCCCCTCGTGAAGCTGGAAGATCACGAGTACAAGCCTTTGGACCCTAAAGACATCCGCTCCAC
CCCCATGCGCCAGCAGAGAGGCTGCTGGCTGCAGTGGAGGCCTTACAGCCCCCGTCCCACGACAGGCCCCA
GGAACAGTGAAGGAGGAGCAGAACGGCCTCTATGAGTCTTCCGAGCAAAAATGCGGGCCCCGGCGAGGAAG
GCCAGGAGAAGAGGAACAGCGGACCTTCGAGGTCTCGGAGCAGATCCAAGAGTCGAGGGCGTTCTTCCTCCGCT
CCAACCTCAAGATCCTCCAAGTCTTCAGGCTCGTACTCAAGGTCAAGGTTCGCGCTCCTGCTCCCGTTCTACTCCC
GCTCCAGATCTAGAAGTCGGAGCAGGTTCGCGCTCCTCCAGAAGCCGCTCCCGGTCCAGTCGCGGTCCCGGTCCA
AGTCGTAATCCCCAGGAAGAAGACGCGGTACAGGTCCAGGAGCCCCACCCCGCTTCTCTGCTGGTCTGGGT
CTAATTCGGCGCCTCCATTCTGACTCAAGGTTCGGAGAAGAGAACAAGGCCATCAGATGCTGGTGAAGATGG
GCTGGAGCGGCTCAGGCGCCTCGGTGCGAAGGAGCAAGGGATCCAGGACCCCATCAAGGGCGGGGACGTCCGGG
ATAAGTGGGACAGTATAAAGGCGTGGGCGTGGCTCTGGATGACCCCTATGAGAAGTACCGCAGGAACAAGAGCT
ACTCCTTCATCGCCCGCATGAAGGCCAGGGACGAGTGTAAGTAGGCGCCCATGCCGGGAGCCGCGCGGTGGCCA
GCGGTGCCGGCTGTGGGACCTTCTGGCTGACTGGCAGAGGAAGATTGCAGTGACAGCTCAGTTCTTACACCGTC
TCCACTTGTGGAGAGCCACAGGAAGAGAAGGAAGACCAGCGCATGCCAGTGGGAACGCCGTGCTCCATGGCGTG
GAGGGCACGGGTGCCACCCACAAACCACACCAGGAGGCGCTGCAGCCACCAAGGGCCCCAGGCTCGTTTTCTTTA
TAGCGAAGCAAAAACACAAGACCTCCGCCGAGTAAATTCTTCAGCCACGAAGGGATGGATGTGCATCTGCCC
TAAGTCAGATTGAAGCCTCCTCCTAGGCTCCAGGAGGAGCATGTGCAGGAAGGGTTGGCCTGAGCCAGAGCCGGC
ACCCAGCTCCTTCTCCTCAGCTCCCGCACCCACCGGCCCTGACCTGGCTTCCCCCTCGGCTGTGTAGGGACAAAG
CCGAAGCCAGTGCCATGACTGCCCGCGGATTGAAAAACAGAAACACAAAACCTTTGACTTGACTTGCGAAGTGAA
GCAGGGTTTTTCATTTTTACTCTCCTTGGTTTAGGTCTAGAAAGAAGAATACTGACCTGAGAGGAGGCCAGTGAG
ATTCTGAAACCTAATTCTTGAAGGCGTACTGGCCCTTAGTTTCAGTTATTTTAGTTGTATAAGTTGATATTTTTT
TTCTGGAATGTAGCCATTTGCTGTTATCTGGGAAACAAGATTCTAACAGGAAACAGCCTAAGACACTTCAGGTT

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FIGURE 5319B

GAGCGCTGCCTCGGAGTCTGTGCCCCGTCGCGTCCCCTGCTTGAGTTTTGCACTTGGAAGAACCCTGCACCGGCTG
GCGTGTCGACGGCCCCAGTCCCATCCAGAGCATGGAGCCCGACCCCAGCCAGCGCCTTCCACTCCATCATTTCAT
TTCACACCCCCGAAGGGAGGGGAGGCCAGGAGGGGAGCTGCTCCTGCCAGAAGCTGGTGGGTGACCGTTGGGAAT
CGGCCACACCTGGTGTCCATGGGCAGCCTGGTGCAATTCCATTCAATTTGTACAGAAACATTTTTGAAAAATTCTT
TTCAATAAGATGCAAAATCTTCCAACTTTTCAACCCAACGTGATGAATATTTGATTTTGTCTAGATTTCTGTGA
GCTGTGAATTGTTAAAATGTATGATTCAGGATAAAACGTAAACACGTGCTGTTAGTAATTTCTTGTGGATTTCAT
TGTTTTGCCTTCAAATAAAGCCTTTTTTTAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5320

MTMEKQKDNPKFSFLFGGEFYSSYYKCKLALQEQQLICKQQTPELEPAATMPPLPQPPLAPAAPIPPAQGAPSMDE
LIQQSQWNLOQQEQHLLALRQEQVTA AVAHAVEQQMQKLEETQLDMNEFDNLLQPIIDTCTKDAISAGKNWMFS
NAKSPPHCELMAGHLRN RITADGAHFELRLHLIYLINDVLHHCQRKQARELLAALQKVVPFIYCTSF LAVEEDKQ
QKIARLLQLWEKNGYFDDSI IQQLQSPALGLGQYQATLINEYSSVVQPVQLAFQQQIQTLKTQHEEFVTS LAQQQ
QQQQQQQQQLQMPQMEAEVKATPPPPAPPPAPAPAPAIPTTQPD DSKPPIQMPGSSEYEAPGGVQDPAAAGPRG
PGPHDQIPP NKPPWFDQPHPVAPWGQQQPPEQPPYPHHQGGPPHCPPWNN SHEGMWGEQRGDPGWNGQRDAPWNN
QPDAAWNSQFEGPWNSQHEQPPWGGGQREPPFRMQRP PHFRGPFPPHQQHPQFNQPPPHNFNRFPPRFMQDDFP
PRHPFERPPYPHRFDYPQGDFFAEMGPPHHHPGHRMPHPGINEHPPWAGPQHPDFGPPPHGFNGQPPHMRQGGP
HINHDDPSLVPNVFYFDLPAGLMA PLVKLEDHEYKPLDPKDIRLPPPMPPSERLLAAVEAFYSPPSHDRPRNSEG
WEQNGLYEFFRAKMRARRRKGEKRNSGSPSRSRSRSKSRGRSSSRNSRSSKSSGSYSRSRSRSCSRYSRSRSR
SRSRSRSSRSRSRSQSRSRSKSYSPGRRRRSRSRSTPPSSAGLGSNSAPP IPDSRLGEENKQGHQMLVKMGWSGS
GGLGAKEQGIQDPIKGGDV RDKWDQYKGVGVALDDPYENYRRNKSYSF IARMKARDECK

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FIGURE 5321

GTGCCACATCCTGGCTCTGTGCGCTGGGCTCCCGCCGCTGCTGCGCGCCTGGCGCGTGCCCCCGCGCCGCCCGT
CTCGGGCCCCGGACCCAGTCCGCATCCGTCGTCCGGCCCCGCTGCTGCCGCCGCGCTTCTACCCGCGCTACGTGCT
ACCGCTCGCCTTCGGCAAGTACTTCGCGTCCGTGTCAGCGCACGTGAGCATCTGGAAGGTGCCCGTGTCTATGC
ACACACCGTCAAGGCCACCATGCCCCATCTGGGTGGTCCCTCTGTCCCGGATCATTATGAAGGAGAAGCAGAGCAC
CAAGGTATACTTGTCACTCATCCCCATCATCAGCGGTGTCTGTGCTGGCCACCGTACCCGAGTTGTCTTTTGACAT
GTGGGGACTCGTCAGCGCCCTCGCCGCCACGCTGTGCTTCTCGCTTCAGAACATTTTCTCCAAAAGGTCTTGCG
AGATTCACGGATCCACCATCTCCGGCTGCTCAACATCCTGGGCTGCCACGCCGTCTTCTTTATGATCCCCACCTG
GGTCTGGTGGACCTCTCGGCTTTCCTGGTCAGCAGCGACTTGACCTACGTCTACCGAGTGGCCCTGGACGCTCCT
GCTCCTGGCTGTGAGCGGCTTCTGTAACCTTTGCCAGAAATGTTATCGCCTTCAGCATCCTCAACCTCGTTAGCCC
CCTGAGCTACTCGGTGCGCAATGCCACCAAAAGAAATCATGGTCATCACGGTGTCCCTGATCATGCTGCGCAACCC
AGTCACCAGCACCAACGTCTGGGCATGATGACCGCCATCCTGGGGGTCTTCTCTATAACAAGACCAAGTACGA
TGCAAACCAGCAAGCCAGGAAGCACCTCCTCCCCGTACCCACAGCAGACCTGAGCAGCAAGGAGCGTCACCGGAG
CCCCTGGAGAAGCCCCACAACGGCCTCCTCTTCCCCAGCACGGGGACTATCAGTACGGCCGCAACAACATCTT
AACAGACCACTTCCAATACAGCCGGCAGAGCTACCCAAAACCTCGTACAGTTTGAACCGCTATGATGTGTAGAGTCC
AAAGGACAGGACCAGACTGTTGGTGACTCCTTCCCCGGCCCCCACAGCAGTATCAGAAACTTCTGACAATCAGTG
AATGTACAACCCAGCCGAGGGGACGGTGCACTCTCCATCAGAAAGCCCTGGGGTTCCTGGCCCCCGTGAGCC
GCAGGAGGATGCGTTGCCGTGAGTGACGCGCGGTGAGCTCTGGGCAAACCTAAACAGAGACCAGTGTCTCATG
CTCTTTCTTCTGGAGTCTGTCTATCTGAGGGCCGTGTCCCTGCGGAGATCTTGGCCACGTTGTACCTTTCCATGT
GGAATTATTTCCCAAGCAGTGTAGCTCAGAGCACTTGTGTCTGCATTCCAGATAACATTAGGACCTGTGTGAAA
AGCTGGGGTCACTGTGGCTGTAGACCATGAACTGGCAGTGGGGGTGTCCAGGGCGGTGCTTGAGAACGTGAGACT
GGCTAGTTTAAATTCCTGGCGCAGATACGCATAGGACCAACAGGGTCACCAAGCAGACAGGGAGCCCCGCGAGAAT
CATTCAAACATCCCCAGCCACAGAGATGGATCCAGTTTCTTGGTTCATCCCCTTAGCAGTTCACAAGTTCTTGGC
AAATGTTCCAAAGCAAAAAGCGATTGCAATTAGCATCCAGTTTCTGACGCTGGTGTCTGCCCTGCACGTGAGG
GTTGGCATCCACCCAGATCCAGATGGAAGGGAACTTCTCTCTTCTCCTTTGCCTCCTCTTCCCTCACCAGAGCA
GGGCGCTTCTCTTGGGGTGGTGAGAAGGATCTTCGAGAAATCGTGTTCAGTATTTCAAGCTCTATTTCTGTGGCA
CATGTCTTTTGAGAGGCATCTTACCTCTTCTGTGATGACTTGGTATGTTGTTTGGTAGAGAGATCTTGATTTTC
GGAGGATCTTGCAATTTTCTAGGGAATATTTGTAGTTGTGTGTGTGTGTTTTGCCTTGGTCCCCATTATGGGA
TGCATTAGGACTGGCCTATGCATCGAAAATCTTTTGTGTTGTAACGTTTAAAAACAAAGTTCCCCGGCCAGGCA
CAGTGGCTCACACCTGTAATCCAGCACTTTGGGAGGCCAAGATGGGCGGATCACGAGGTGAGGAGTTGAGACC
AGCCTGGCCAACATAGTGAAACCCCATCTCTACTAAAAATACAGAAATTAGCCGGGCATGGTGTGCGGTGCCTGT
AGTCCCAGCTCCTCAGGCTGCTGAGGCAGGCGAATTGCTTGAACCTGGGAGGCAGAAGTTGTGGTGAGCCGAGAT
GTGCACTCCAGCCTGGGTAAACAGAGCGAGACTCCATCTCAAAAAAAACAAAACAAACCAAGTTCCCACTGGT
GATGCCCTGTCTGACACGTTTTTGGTATTTAGTAGGAAATGAAGTGTTCGAAGCTTCGAGAGAAGCTTCAAAATTG
TCACAATTGCTGAAAACAGAATGAATCGTGAACATTATCTCAATATTTTGTATAATAGACAAGACCACAGTGTTC
TGGTTCCCTGACCTGTTTTTGTGTTTATGTTAGGATCTGAATCATGTTCTGGGTAAAGGGGACGAGGAGCGAACAC
TGCACTAAGATTTGGTTTGCCAAATCAGATTCTTTGGTCAAGAGTCAGTTTGGGGCCAGGCGTGGTGGCTCATGC
CTGTAATCTCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACTGGAGTTTGAGACCACCTGGCCAACATGGTGA
AACCCCATCTCTACTAAAACAAAAATTAGCCAGGCATGGTGGCACCTGCCTGTAATCCCAGCTACTTGGGAGGCT
GAGGCAGGAGAATCACTTGAGCCCAGGAGGTGGAGGTTTCAGCGAGCTGAGATCACACCACTGCACTCCAGCCTT
GGTGACAGAGTGAGACTCTGTCTC

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FIGURE 5322

MPIWVVLLSRIIMKEKQSTKVYLSLIPIIISGVLLATVTELSFDMWGLVSALAATLCFSLQNIFFSKKVLDRDSRIHH
LRLNLILGCHAVFFMIPTWVLVDLSAFLVSSDLTYVYQWPWTLALLAVSGFCNFAQNVIAFSIILNLVSPLSYSVA
NATKRIMVITVSLIMLRNPVTSTNVLGMMTAILGVFLYNKTKYDANQQARKHLLPVTADLSSKERHRSPLEKPH
NGLLFPQHGDYQYGRNNILTDHFQYSRQSYPNSSYSLNRYDV

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FIGURE 5323

GGCACGAGGGGAACATCTTCATGATGTTCTGCAATGATTGTGCTGTTTCGGCTCTTGAATCCCAGCGATGAAACCAG
GAACTCACTTTTCCCGGGATGCCGAGTCTCCATTCCCTCCATTCTGATGACTTCAAGAATGTTTTTGACCAGAAAA
CCGACAACCTTCCCAGAAAGTCCAAGCTCGTGGTGGGTGGAAAAGTGTTCCGCCGAGGTGTGCATGGTTTTCCCAGC
CACGTCCCTGTTTTCAAAGATAGTTTTCACTTTGGTCTCTGAATTGAAATGCTGTCTACTGAAAGGGTTTTCAGGAG
CGTTTTATGTAAGGGGCTGTGATGAAATTGCATTCCCCATAGATAAAAAGAAAAATCATTCTATCCAGAGATCTGA
GCAGAAGGATTGGCTTGTTAGTTTTAACACAGCCGATTTTTGGACATTCACTGTTACTTGCTGAGTCTGACAGCC
TCTGGGCCCCGCCAGGGGCCCTGTTAACAACTGCTTTCACATCCCAACAGGGTCTGCTTGGCCACTCAGTGCAG
CTGCGATTAAACCCTAAAGGCTTTAAGGAACGGGCCACCTGTAACAGAGACACCAGCCTTCCCTGTATAGACACTAA
ATTGTTAGCAAGAGTGTTGAGCTAGTTCCTGGTGAAGTGTTTCCACAGAAGACATGTGGAGCAGTTGTGGGGATA
TTAAGGGAACTTTCTCTGCCTTGACCCCTTTGTTAAATAAAATGACTTTGGGAGCCATTCAATTGTACAGTTGC
AGGAATGAGAGTGATTTTATGATGTGGTACATTGGGACCATGTTCTAAAACCTTGGGTTTCTGAGTCTGCTTTTT
GAGTAGGTGATTTTGAGGTGAAAAACCAGGGGCCTTCATCTAGGAAATACAGCATTTCAGAAAGCTTCTTTGA
AAGGGAATCCTGGTTTTGTTGCCAAAATGAAACGCCCGGGGTTGGCGCTGAATCCCACAACGTGTGATTTGCTT
GTTGAGTTTTTTGTTGCTGGTTTTTTTTGTTTGTGTTTATACCAATAAGAATGAGCCTGAATGTTGGTGGTTT
TTGAAATCCTGACTTGAGGTAAACCTGGAGGAAGGAAAAAAGTAAATATGCAGGCTTTTAGGACTGAGTAGCC
TTGAAAATAAACCTCATTTCTAAAAAGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5324

MPSLHSSIPDDFKNVFDQKTDNLPRKSKLVVGGKVFAEVCMVSQPRPCFQR

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FIGURE 5325A

ATGAGTGTGAAAGAGGCAGGCAGCTCGGGCCGCCGGGAGCAGGC GGCTACCACTGCACATCTACCCCCAGCTG
TCCACCACCGAGAGCCAGGCCTCGTGCCGCGTGACTGCCACCAAGGACAGCACCACCTCGGACGTCAATCAAGGAC
GCCATTGCCAGCCTGCGGGCTGGACGGCACCAATGTTATGTGCTGGTGGAGGTCAAAGAGTCGGGAGGCGGAGGAA
TGGGTGCTGGACGCCAACGACTCGCCTGTGCACCGGGTGCTGCTATGGCCCCGGCGGGGCACAGGACGAGCACCCCT
CAGGAGGATGGCTACTACTTCCTGCTGCAGGAGCGCAACGCAGATGGAACCATCAAGTACGTGCATATGCAGCTG
GTGGCGCAGGCCACAGCCACCCGGCGCCTAGTGGAGCGTGCCCTCCTGCCACGGCAGCAGGCGGACTTTGATGAC
CTGTGTAACCTCCCCGAGCTAACCGAGGGCAACCTCCTGAAGAACCTCAAGCACCGCTTCCTGCAACAAAAGATC
TACACGTACGCGGGGAGCATCCTGGTGGCCATCAACCCCTTTAAGTTCCTGCCCATCTACAACCCCAAGTACGTG
AAGATGTATGAGAACCAGCAGCTGGGCAAGCTGGAGCCACACGTCTTCGCGCTGGCCGACGTGGCCTACTACACC
ATGCTCAGGAAGCGCGTGAACCAGTGCATCGTGATCTCGGGTGAGAGCGGCTCCGGCAAGACCCAGAGCACCAAC
TTCCTCATCCACTGCCTCACCGCCCTCAGCCAGAAGGGCTACGCCAGCGGCGTCGAGAGGACCATCCTGGGTGCT
GGCCCTGTGCTGGAGGCTTTTGAAATGCCAAGACAGCCCAACAACAACCTCCAGCCGGTTTGGGAAATTCATC
CAAGTCAGCTACCTAGAGAGTGGCATCGTGAGAGGAGCTGTCGTCGAGAAATATCTGCTTGAAAAGTCTCGCCTG
GTGCTCAGGAGAAGGATGAGAGGAACCTACCATGTGTTTTATTATTTGTTACTTGGGGTCAGCGAGGAAGAGCGC
CAAGAATTTAGCTCAAGCAGCCTGAAGATTATTTCTACCTCAACCAGCATAACTTGAAGATTGAAGATGGGGAG
GACCTGAAGCATGACTTTGAGAGGCTCAAGCAGGCCATGGAGATGGTGGGCTTCCTCCCCGCCACCAAGAAGCAG
ATTTTGGCGTCTCTCGGCCATCCTGTACCTGGGCAACGTCACTTATAAGAAGAGAGCTACAGGCCGAGAGGAA
GGGTTGGAGGTGGGGCCACCCGAGGTGCTGGACACCCGTGTCGCAGCTTCTGAAGGTGAAGCGAGAAATCTTGGTG
GAGGTTCTGACCAAAAGAAAAACGGTGACCGTCAACGACAAGCTTATCCTTCCCTACAGCCTCAGCGAGGCCATC
ACTGCCCCGACTCCATGGCCAAGTCTCTGTACAGCGCCCTGTTCGACTGGATTGTGCTGCGGATCAACCACGCA
CTCCTCAACAAGAAGGACGTGGAAGAGGCAGTCTCGTGCCGTGCCATTGGGGTCTTGACATCTTCGGGTTTGAA
GACTTCGAGAGGAACAGCTTTGAGCAGTTCTGCATCAACTACGCCAATGAGCAGCTGCAGTATTACTTCAACCAG
CACATCTTCAAGCTGGAGCAGGAGGAATATCAGGGCGAGGGGATCAGTGGCACAACATCGGCTACACAGACAAT
GTCGGCTGCATCCATCTCATCAGCAAGAAACCCACGGGCCCTTCTTACCTGCTGGACGAGGAGAGCAACTTCCCC
CACGCCACGAGCCAGACCTGCTGGCCAAGTTCAAACAGCAACATGAGGACAATAAGTACTTCTTGGGCACCCCG
GTCATGGAGCCAGCTTTATCATCTCAGCACTTCGCAGGGAAGGTGAAATATCAGATCAAGGACTTCCGGGAGAAG
AACATGGACTACATGCGGCCAGACATCGTGCCCTGCTGCGGGGCAGTGACAGCTCCTACGTGCGGGAGCTCATC
GGCATGGACCCCGTGGCCGTGTTCCGCTGGGCCGTGCTCCGGGCTGCTATCCGGGCCATGGCAGTGTTCGGGAG
GCCGGAGCCTGCGGGCCGAGAGGGCCGAAAAGGCTGCAGGTATGAGCAGCCCTGGTGCCCAAAGTCACCCAGAA
GAGCTGCCAAGAGGCCAGCACCCCTTCGGAAAAACTTTACCGGATTGTCATAACCAATGATCAAGAGCATC
AAAGGATTGCCCTGGCAGGGCGAGGACCCCGTAGCCTTCTCCAGTCCCTCAGTCGGCTCCAGAAACCCCGGCC
TTCATCCTGAAAAGTAAAGGTATCAAACAAAAGCAGATCATTCAAAAGAACCTACTGGACTCCAAGTCCCTGAAA
CTCATCATCAGCATGACTCTGCACGACCGCACCAAGTCCCTACTGCACCTGCACAAGAAGAAAAAGCCACCA
AGCATCAGCGCCAGTTCCAGACATCCCTTAAACAAGCTCTTGAGGCACTGGGGAAGCGGAGCCCTTCTTTATC
CGCTGCATCCGTTCCAATGCTGAAAAGAAAGAGCTGTGCTTTGACGACGAGCTGGTCTTGCAGCAGCTGCGCTAC
ACCGGCATGCTGGAGACCGTGCGCATCCGGAGGTACAGGTACAGCGCAAGTACACGTTCCAGGATTTACCGGAG
CAGTTCCAGGTGCTCCTGCCCAAGGATGCCAGCCCTGCAGGGAGGTCTCTCCACCCTCCTGGAGAAAAATGAAG
ATAGACAAGAGGAACCTACCAGATCGGGAAGACCAAGGTCTTCTGAAGGAGACGGAGCGGCAAGCCCTGCAGGAG
ACGCTGCACCGGGAGGTGGTGGGAAAATCCTGCTGCTGCAGAGCTGGTTCCGGATGGTGTGGAGCGTCGGCAC
TTCCTGCAGATGAAGCGGGCCGCGCTACCATCCAGGCCTGCTGGCGGTCTTACCGGGTCCGGAGGGCGCTGGAG
AGGACGCAGGCTGCCGTGTACCTCCAGGCCTCATGGAGGGGCTACTGGCAGCGGAAGCTCTACCGGCACCAAGAAA
CAGAGCATCATCCGCTGCAGAGCCTGTGTCGGGGGCACCTGCAGCGCAAGAGCTTACGCCAGATGATCTCGGAG
AAGCAGAAGGCAGAAGAGAAGGAGAGGGAAGCCCTGGAAGCCGCAAGAGCAGGTGCTGAGGAGGGCGGACAGGGT
CAGGCGGCTGGAGGGCAGCAGGTAGCTGAGCAGGGGCGGAGCCAGCGGAGGATGGCGGGCACCTGGCATCGGAG
CCTGAGGTGCAGCAAGTGACAGGTCCCCCTAGAGCACTCTCACCTGAGAAGGAGGGCCCCAAGCCAGAGAAG
ACTCTCCCACCCAGAAAACCGTGGCGGCTGAAAGTCACGAGAAAGTCCCCAGCAGCCGGGAGAAAGCGTGAGTCG
CGTCGGCAAAGAGGGCTGGAGCACGTCAAGTTCCAGAACAAACACATCCAGTCTGCAAGGAGGAGAGTGCCCTC
AGAGAACCTTCCAGAAGGGTCACCCAGGAGCAAGGGGTGAGTCTCCTGGAAGACAAAAAGGAGAGCAGAGAAGAT

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FIGURE 5325B

GAAACCCTTCTAGTCGTAGAGACGGAGGCTGAGAACACATCTCAAAAAGCAGCCACAGAGCAACCCCAGGCCATG
GCAGTTGGCAAGGTCTCTGAAGAACTGAGAAGACGCTGCCAGTGGGAGCCCCAGGCCTGGCCAGTTGGAGCGG
CCGACCAGCCTGGCCCTGGACAGCAGGGTCAGCCCACCGCCCCCTGGCAGCGCCCCCGAGACCCCCGAGGACAAG
AGCAAACCATGTGGCAGCCCCAAGGGTTCAGGAAAAGCCCGACAGCCCCGGAGGCTCCACGCAGATCCAGCGGTAC
CTGGACGCCGAGCGGCTGGCCAGCGCCGTGGAACCTGTGGCGGGGCAAGAAGCTGGTGGCCGCCGCCAGCCCTAGT
GCCATGCTCAGCCAGTCCCTGGACCTCAGCGACAGACACCGGGCCACAGGGGCCGCCCTCAGCCCCACAGAGGAG
AGGCGCACCTCCTTCTCCACGAGCGACGTCTCCAAGCTCCTCCCGTCCCTGGCCAAGGCTCAGCCTGCAGCAGAA
ACCACGGACGGAGAGCGAAGTGCAGAAAAGCCAGCTGTCCAGAAGAAGAAGCCAGGCGACGCATCCTCCTCCCA
GACGCAGGGCTGTCCCCGGGCTCTCAGGTCGACTCTAAATCCACGTTTAAGAGGCTTTTTTCTGCATAAAACCAAG
GATAAAAAATACAGCCTGGAGGGCGCAGAGGAGCTGGAGAAATGCAGTGTCCGGGCACGTGGTGCTGGAAGCCACC
ACCATGAAGAAGGGCCTGGAAGCCCCCTCCGGACAGCAGCATCGCCACGCTGCAGGTGAGAAGCGCACCAAGGAA
CCAGGAGGCAAGGGGAAGAAGAACCGAAATGTCAAGATTGGGAAGATCACAGTGTGAGAGAAGTGGCGGGAATCG
GTGTTCCGCCAGATCACCAACGCCAATGAGCTCAAGTACCTGGACGAGTTCTGCTCAACAAGATAAATGACCTC
CGTTCCCAGAAGACGCCCATTTAGAGCTTGTATTATCGAAGCCACCGAGAAGTTCAGGAGCAACATCAAAACGATG
TACTCTGTCCGAACGGGAAGATCCACGTGGGCTACAAGGATCTGATGGAGAAGTACAGATCGTCTGTCAGCAAC
CTGGCCACTGAGCGTGGCCAGAAGGACACCAACCTGGTCTCAACCTCTTCCAGTCACTGCTAGATGAGTTTACC
CGTGGCTACACCAAGAACGACTTCGAGCCAGTGAAGCAGAGCAAGCTCAGAAGAAGAAGCGGAAGCAGGAGCGT
GCTGTCCAGGAGCACAAACGGGCACGTGTTCCGCCAGCTACCAAGTTAGCATCCCGCAGTCTGTCGAGCAGTGCCTC
TCCTATATCTGGCTCATGGACAAGGCCCTGCTCTGCAGCGTGTGCAAGATGACCTGCCACAAGAAGTGCCTGCAC
AAGATTCAGAGCCACTGCTCCTACACCTACGGGAGGAAGGGCGAGCCAGGCGTTGAGCCTGGCCACTTCGGCGTG
TGCGTAGACAGCCTGACCAGCGACAAGGCCCTCGGTGCCATCGTGCTGGAGAAGCTCCTGGAACACGTGGAGATG
CACGGCCTGTACACCGAGGGCCTCTACCGCAAGTCGGGTGCTGCCAACCGCACTCGGGAGCTCCGGCAGGCGCTG
CAGACAGACCCCGCAGCAGTCAAGCTGGAGAATTCCTCCATCCACGCCATCACAGGGGTGCTGAAGCAGTGGCTG
CGGGAGCTGCCCGAGCCCCCTCATGACCTTCGCACAGTACGGCGACTTCCTCCGAGCCGTCGAGCTGCCGGAGAAG
CAGGAGCAGCTGGCTGCCATCTATGCCGTCTGGAGCACCTTCAGAAGCCAACCACAACCTCCCTGGAGAGACTC
ATCTTCCACCTTGTCAAGGTGGCCCTGCTCGAGGATGTCAACCGCATGTCACTGGGGCGCTGGCCATTATCTTC
TGCGTGGAGATGCTGATCAAGGAGCAGATGAGGAAATACAAAGTGAAGATGAGGAGATCAGCCAACCTGGAGGCT
GCAGAGAGTATCGCCTTCGCGAGGCTTTCGCTCCTGCGACAAAATGCTCCATGGCCTCTCAAACCTGGGGTTTTCG
TCTCCCTATGAGGGGGTCTGAACAAGAGCCCCAAGACCCGGGACATCCAGGAGGAGGAGCTGGAGGTGCTGCTG
GAGGAGGAGGAGCAGCCGGCGGCGATGAGGACCGGGGAAAAGGAGATTCTATTGAACGGATCCAGTCCATCAAGGAG
GAGAAGGAGGACATCACCTACCGGCTGCCGGAGCTGGACCAAGGGGCTCGGACGAGGAGAACTGGACTCGGAG
ACGTCCGGCCAGCACCGAGAGCCTGCTGGAGGAGCGGGCGGGCGGGGGCCTCGGAAGGGCCCCCTGCGCCTGCT
CTCCCTTGCCCCGGCGCGCCACCCCGAGCCCCCTCCCCACCGTGGCCGCCCCCTCCACGACGAAGGCCGTGCTCC
TTCGTAACGGTCAGAGTGAAGACCCCCGGCGGACCCCCATCATGCCACGGCCAACATCAAGCTCCACACAGGC
CTGCCCTCCACCTGCCTCGCTGGGCACCGGTGCCCGGGAGCGGCTGCCCCAGTGCGGCGCGGGAGCCACCT
GCCCGCCGCCCCGACCAGATACATTCCGTGTACATCACGCCCCGGGCGAGACCTGCCAGTGCAGGGCGCCCTGGAG
CCCCTAGAAGAGGATGGCCAGCCACCTGGGGCCAAGCGGAGGTACTCGGATCCCCCAACGTACTGCCTGCCCCCC
GCCTCGGGCCAGACCAATGGCTGAGAGCCACAGCTGACAAAAGTCTGCATGTCCGAGGACGGCCCCCTGCACTGGAG
CTGGGCGCCAGAGCTGCAGAGCTAGTGTTCGGCCCTCAGAGAAGGATCCAGAATCAAAAGCTCAAGAGTGACGTG
AGGTGGGCACCGCCCCAAGTGCAGAGTCAAGGCAGGGAGAGGCCGGCTGGAGCCAGGCCCCCTCGCACGCAGCC
CCCAATCATGGACGCACCTGTGGGGAGCACCATCTCCACCTGCGGCCTCACATCTCCCCACTCCCTTTTTG
TACGTTTTAACTGTTTCTTTGTACGTGGTTTACGTAACTTTAACTGTAACAGCCTTAATGGAAGACCAATGGTT
TTTTATATGTGTATGTACAAAGTTTTCTATTAACGCTGCCCGTCTCCCTTATAACCTGGACGTGAGCTGTCAGAG
CAGAAGCCACTAGGCCACTGCGCGTCTGAGGCTCAGACCCTGCTGTGGTTGGCTTGGGGTGGCCAATGGGCTGGG
ACCCTCCATGAGAGTTTTTGGACACTTGGGTACCTGACCCGTGCTCTCTGACACATGTCTCCGGGGGCGAGCCA
CCTGGCCAATGTGCATTTTTTGCACATGCTGGAACCTTCCATGGGGGTCTGGGCTATTGGCTGGAGCCAGGACATG
AGTCAGGGGCACCATGGACCTCACGTGCCAGGGAGACTTGAATGTGGCTGTCACTCTTCCGGACGCCAAGGGCTG

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FIGURE 5325C

CAGGAGGCTGCTTTTGGCACTACCCACCCCGTGTGACAGAATAGGAGCCAGCGACTCAGGACTGCTCACGGGTCA
GGAGGGCAACGCCTGAAGTCAGACCTCCCTATAGGTCAACAGGGACAACCTGGGGATCTCTGGAGCAGGGCCCTC
CTCTCTCAGGCTTGGCCCACTCCCCAGACACCTGGACACGTGGCCACAAATCTGGGACAAGGGGCCCCCGCACA
GCATGAAATAAAAAAGTGCCTGAGAAGTGTG

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FIGURE 5326

CCTGATCAGCGGGGCCGGGGCGGCGCCGTACAACCTCCGGCTGTAAAGATGGCGGCTTCCTAGTGAGTCGGCGG
CTGATTTAGAAGGAGGTTTCAGGCTACGGTGAGCCGAAGCCACACAGGAGCCATGGAAGTGGCAGAGCCCAGCAGC
CCCCTGAAGAGGAGGAGGAGGAAGAGGAGCACTCGGCAGAGCCTCGGCCCCGCACTCGCTCCAATCCTGAAGGG
GCTGAGGACCGGGCAGTAGGGGCACAGGCCAGCGTGGGCAGCCGCGAGCGAGGGTGAGGGTGAGGCCGCCAGTGCT
GATGATGGGAGCCTCAACACTTCAGGAGCCGGCCCCAAGTCCTGGCAGGTGCCCCCGCCAGCCCCCTGAGGTCCAA
ATTCCGACACCAAGGGTCAACTGTCCAGAGAAAAGTGATTATCTGCCTGGACCTGTCTAGAGGAAATGTCACTGCCA
AAGCTGGAGTCGTTCAACGGCTCCAAAACCAACGCCCTCAATGTCTCCAGAAAGATGATTGAGATGTTTCGTGCGG
ACAAAACACAAGATCGACAAAAGCCACGAGTTTGCCTGGTGGTGAACGATGACACGGCCTGGCTGTCTGGC
CTGACCTCCGACCCCCGCGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTG
GAAGGACTTTTCAGCCTCATCCAGCAGAAAAGTGAAGCTTCCGGTCACAGAGAACGTGCAGACGATTCCCCGCCA
TATGTGGTCCGCACCATCCTTGTCTACAGCCGTCCACCTTGCCAGCCCCAGTTCTCCTTGACGGAGCCCATGAAG
AAAATGTTCCAGTGCCCATATTTCTTCTTTGACGTTGTTTACATCCACAATGGCACTGAGGAGAAGGAGGAGGAG
ATGAGTTGGAAGATATGTTTGCCCTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTATGAGGTGGCAC
TGGCTGGGCCAGCCCTGGAGTTGCACAACTGCATGGCGAAACTGTTGGCCACCCCCCTGCAGCGGCCTTGCCAGA
GCCATGCTTCCTACAGCCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGCCACTGTCTGAACCATCCCTG
TACATCTGCACCTTCTTGTGCAAGGAAGTCCTTGGCCTAAAGCCTTGGTTCTCAAACCTGGGTTCCTTGGGACCTC
CGGGGTGGGGGGTTCAGGAGGCACGTAGGGTACCTTGCAAGGTCCTAGGAGGGAAACCCAGGATTCCAGGAGG
GATCCCAGGAAGTGTGGGCACCCATTTCTGTGTCTCCAGCCCATTTCCACTCCTAGTTTGTCTATGGATAATTT
TTGTTCTTCCCTGTGTGATTTTGGCCATCAAAATAAAAAATTTGAGACTCGTTAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5327

MEVAEPSSPTEEEEEEHSAEPRPRTRSNPEGAEDRAVGAQASVGSRSEGEGEAASADDGSLNTSGAGPKSWQV
PPPAPEVQIRTPRVNCPEKVIICLDLSEEMSLPKLESFNGSKTNALNVSQKMIEMFVRTKHKIDKSHEFALVVVN
DDTAWLSGLTSDPRELCSCLYDLETASCSTFNLEGLFSLIQQKTELPVTENVQTIPPPYVVRTILVYSRPPCQPQ
FSLTEPMKKMFQCPYFFFDVYIHNNGTEEKEEEMSWKICLPSWAAWIPRVFATSMRHHWLGQPWSCITAWRNCWP
TPCSGLARAMLPTACWRRRMKPLRLRPLSEPSLYICTFLCKEVLGLKPWFSNWVPWDLRGGGVPGGT

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FIGURE 5328

GTGGAATTCATGGCATCTACTTCGTATGACTATTGCAGAGTGCCCATGGAAGACGGGGATAAGCGCTGTAAGCTT
CTGCTGGGGATAGGAATTCTGGTGCTCCTGATCATCGTGATTCTGGGGGTGCCCTTGATTATCTTCACCATCAAG
GCCAACAGCGAGGCCCTGCCGGGACGGCCTTCGGGCAGTGATGGAGTGTCGCAATGTCACCCATCTCCTGCAACAA
GAGCTGACCGAGGCCCCAGAAGGGCTTTCAGGATGTGGAGGCCCAGGCCGCCACCTGCAACCACACTGTGATGGCC
CTAATGGCTTCCCTGGATGCAGAGAAGGCCCAAGGACAAAAGAAAGTGGAGGAGCTTGAGGGAGAGATCACTACA
TTAAACCATAAGCTTCAGGACGCGTCTGCAGAGGTGGAGCGACTGAGAAGAGAAAACCAGGTCTTAAGCGTGAGA
ATCGCGGACAAGAAGTACTACCCAGCTCCCAGGACTCCAGCTCCGCTGCGGCGCCCCAGCTGCTGATTGTGCTG
CTGGGCCTCAGCGCTCTGCTGCAGTGAGATCCCAGGAAGCTGGCACATCTTGGAAGGTCCGTCCTGCTCGGCTTT
TCGCTTGAACATTCCCTTGATCTCATCAGTTCTGAGCGGGTCATGGGGCAACACGGTTAGCGGGGAGAGCACGGG
GTAGCCGGAGAAGGGCCTCTGGAGCAGGTCTGGAGGGGCCATGGGGCAGTCCTGGGTGTGGGGACACAGTCGGGT
TGACCCAGGGCTGTCTCCCTCCAGAGCCTCCCTCCGGACAATGAGTCCCCCTCTTGTCTCCACCCCTGAGATTG
GGCATGGGGTGCGGTGTGGGGGGCATGTGCTGCCTGTTGTTATGGGTTTTTTTTTTCGGGGGGGGGTGCTTTTTTTC
TGGGGTCTTTGAGCTCCAAAAAATAAACACTTCCTTTGAGGGGAGAGCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAA

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FIGURE 5329

MASTSYDYCRVPMEDGDKRCKLLLIGIGILVLLIIVILGVPLIIFTIKANSEACRDGLRAVMECRNVTHLLQQELT
EAQKGFQDVEAQAATCNHTVMALMASLDAEKAQGQKKVEELEGIEITTLNHKLQDASAEVERLRRENQVLSVRIAD
KKYYPSSQDSSSAAAPQLLIVLLGLSALLQ

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FIGURE 5330

TTCCGGCGGAAGTTGCTGGGCGCGGAAAGCCGGCAAGACCTTTTTTCCGCCATCATCGCTCACGCGCGCAACCC
TGCGGACGCGTGGTGGCGAGGCTCCGCCCTCCCCACGCCATTGGCCAGCAGCTCCTCGGGCACGCGTATACTGCGC
TTCCGGGCAATCTCCGCCCCCCCCCCCCGCATGGCCTTCTGGGAGTTGTAGTTTCGGTTCGCGAGCGCTGCCGTCCG
GAGGCGCTCCGAGGTTTCGAGGCTGTGCCCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATGGATCCCGTACC
CGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCCTGGTCGTCGGCCTCTGCACCCCCGCGCGGGGGTTTCAGCGC
GATCTCCTGCACCGTCGAGGGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTG
CCTTAGTTCTCTGGGCAGCCTAGAGAACCCGCGAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAG
CCCCCTGCCGCTGGGCTTCTCCCCCGTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCAT
GTGTGTGAAGCTGTTGCCCTGGGAGCCACGGACACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGAC
AGTGCCCTGGATACCTTCGAATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCGAGGCC
AGTGCCCAAGCCCCGAGGTCTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGG
CGGCCTCCTGGAGCGGACAGCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGA
GGCCTCCAGCCTCTATGGCATCTCAGCCATGGATGGGGTTCCCTTCACACTCCACCCACGATTGAGGGCAAGAG
CTGCAGCCCCCTGGCCTTCTCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAA
CTACGGCTTCGTGGTGGAGAAGACCGCGGCTGCCCCGCTGCCCCCAGCGTCTCATAGTCCCTCACCTTCCGCG
GAAAGAGCCCCCTTACTCCACCTCCCCGCCAGCCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCAC
TCACTGCATCCTGGGAACCTTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGA
GGAGGGGGCGGTTCGAGGCTGCGTGGTGTGGGGTCTCCGCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGAC
AGAAGCCAGTGCCTTTAAGTCATTGTGTCAAACCCCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCTCTGGCAA
TAAACACTACCCGGTTCTCGCC

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FIGURE 5331

GCTTCCTCCTCCCCGCCGCCGCCCTCGCCATGGCCGCGCCGGCCCCGGGCCCTCATCTCGGTGTTCTCGAGTTCCC
AGGAGCTGGGTGCGGCGCTAGCGCAGCTGGTGGCCAGCGCGCAGCATGCTGCCTGGCAGGGGGCCCGCGCCCGTT
TCGCGCTCGGCCTGTGCGGCGGGAGCCTCGTCTCGATGCTAGCCCCGCGAGCTACCCGCCCGCTCGCCCCCTGCCG
GGCCAGCTAGCTTAGCGCGCTGGACGCTGGGCTTCTGCGACGAGCGCCTCGTGCCCTTCGATCACGCCGAGAGCA
CGTACGGCCTCTACCGGTGAGAGCTACGGGGGCCGCCGGGGATCACGCCGAGAGGGCCACAGCCACCGCCTACA
CCCCGGCTACGGAGGCCGCCGGGGGCCATGCCGAAAGGGCCGCGCCCACTGTCTGCACCTCGGCTACGGGGGCCA
CTGGGTATCATGCCAAGAGGGCCGTGCCCACTGCCCTGCACCTCGGCTACGTGGGTGCTGGGGGTTCATGCCAAGA
GGGCCGCGCCACCGGTTGCCCTCGGCTACGGGGGCCACTGGGGGTTCATGCCGAGATGGTCACGCCCACTGCCCTG
CACCTCGACTACGGGGGCCGCTGGGGGTCTAGCCGACAGGGCTCGCCCGCCTCCTGAACCCCGCCTACAGTGGGT
CCCGCAGGACCTCACTGCGCCCTCTGCCCTTATCTAGGCAGGGCTAGAAATGGTCTACTTGCAGTCCGTCTTCCT
GCTTCATCCGGTGGCCAGGCAGAGGGAACGGCACGGGCAAGGGCCTGGAAGGGAATCCGAGTGGCCCATGTCAAA
CGATGCCCATAACTCAGCCCCGTAGCGGACGGGGGCACGAGGAATCAGGTGTAGAGCCTGAATCTCAGGGTCTCTG
ATCTCTAACCCAGCGAGTTCTCGGGGATCCCTGGGCAGCTTTGCCGCTCTGATGGCTCTGCTTCCAGGCTGTTT
ATCTTTGGCTTTGAGCCTCAGGATTCTATAGAATCAGAGGAGCGCGCTCTTTTAAAGACAGGGTAACTGAGGCTT
GGAGGAGCCTTGGCCTGGCCGAGGGAAGAGTGGGAGGGGCGGGCTCAAAGGCCAGGAACCTCAAGTCACTTGAGT
CTGGCAGCGTCAAGGGACACCCCATGCTGGGTGTGCCGTCTTCTCTTTGCATAGAATCTTGAGCTGATGATGGTT
TTGTGGGTTTTTTTATTAAGAGAAAAGGCTTACTGAACGCTTTATATGCATCAATTCATGAGTCCGTACACAGCC
TATGAGATGTTACACTCATTTACAGATGGAGAACTGAGGCCAGAAGAGGTGAGCTTACCTGCCCAAGGCATCT
AGTGACCAGAGGGGCAGCCAGGGTGTGATCCTGCCTCATCTGACTTCGTAGTTGGGTACACATTTAACTTCCGCC
TTCCTGTGTGTGTTTTCCAAGAGCATCATTAAAAAGTTTTGGCCGGGTGCGGTGGCTCACGCGTGAATCCCAGC
ACTTTGGGAGGCCGACGTGAGTAGATCACCTGAGGTCAGGATTCGAGACCAGCCTGGCCAACATGGCAAACTC
TGTCTCTACTA

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FIGURE 5332

AAGATGGCGGCGGTGGCTGGATCTGGGGCTGCCGCGGCTCCGAGCTCACTGCTCCTCGTGGTGGGCAGCGAGTTC
GGGAGCCCCGGGGCTCCTCACCTACGTCCTGGAGGAGCTCGAAAAGAGGCATCCGGTCTTGGGATGTCGATCCTGGC
GTCTGCAACCTTGATGAACAGCTCAAGGTCTTTGTGTCCCGACACTCTGCCACCTTCTCCAGCATTGTGAAAGGC
CAGCGGAGCCTGCACCACCGTGGAGACAACCTGGAGACCCTGGTCCTCCTGAACCCATCAGACAAGTCCCTGTAT
GATGAGCTCCGGAACCTTCTGTTGGACCCTGCCTCTCACAAGCTACTGGTGTGGCTGGGCTCTGCCTGGAGGAG
ACGGGGGAGCTGCTGCTACAGACAGGGGGCTTCTCGCCTCACCCTTCTCCAGGTCTTGAAGGACAGAGAGATC
CGGGACATCCTGGCCACCACGCCCCACCTGTGCAGCGGCCATACTCACCATCACCTGCCCCACCTTCGGTGAC
TGGGCTCAGCCGGCACCCGCTGTGCCTGGCCTTCAGGGGCGCTCCGGCTCCAGCTGCGGCTGAACCCCCCGGCG
CAGCTGCCCCAATCTGAGGGCCTGTGCGAATTCCTGGAGTACGTGGCTGAGTCTCTGGAGCCACCGTCCCCCTTC
GAGCTGCTGGAGCCCCGACCTCCGGGGCTTCTCAGGCTGGGCCGGCCCTGCTGCTACATCTTCCCTGGAGGC
CTCGGGGATGCCGCCTTCTTCGCCGTCAATGGCTTCACTGTGCTGGTCAACGGTGGCTCAAACCCCAAGTCCAGT
TTCTGGAAGCTGGTGCAGCACCTGGACCGCGTGGATGCCGTGCTGGTGACCCACCCTGGCGCCGACAGCCTCCCC
GGCCTCAACAGCCTGCTGCGGCGCAAACCTGGCGGAGCGCTCCGAGGTGGCTGCTGGTGGGGGCTCCTGGGACGAC
AGGCTGCGCAGGCTCATCTCCCCAACCTGGGGGTCTGTCTTCAACGCTGCGAGGCCGCTGCGGGCTGGCG
CGCGGCGAGGATGAGGCGGAGCTGGCGCTGAGCCTCCTGGCGCAGCTGGGCATCACGCTCTGCCACTCAGCCGC
GGCCCCGTGCCAGCCAAACCCACCGTGTCTTCGAGAAGATGGGCGTGGGCCGGCTGGACATGTATGTGCTGCAC
CCGCCCTCCGCCGGCGCGGAGCGCACGCTGGCCTCTGTGTGCGCCCTGCTGGTGTGGCACCCCGCCGGCCCCGGC
GAGAAGGTGGTGCCTGTCTTCCCCGTTGACCCCGCCCGCTGCCCTCTGGACGGCTGGTCCGCCTGCAG
CACTTGAGTTTCTGCGAGAGCCGCTGGTGACGCCCCAGGACCTGGAGGGGCCGGGGCGAGCCGAGAGCAAAGAG
AGCGTGGGCTCCCGGACAGCTCGAAGAGAGAGGGCTCCTGGCCACCACCCCTAGACCTGGCCAGGAGCGCCCT
GGGGTGGCCCGCAAGGAGCCAGCACGGGCTGAGGCCCCACGCAAGACTGAGAAAGAAGCCAAGACCCCCCGGGAG
TTGAGGAAAGACCCAAACCGAGTGTCTCCCGGACCCAGCCGCGGGAGGTGCGCCGGGACGCTCTTCTGTGCCC
AACCTCAAGAAGACGAATGCCAGGCGGCACCCAGCCCCGCAAGCGCCAGCACGTCCCACTCTGGCTTCCCG
CCGGTGGCAAATGGACCCCGCAGCCGCCCAGCCTCCGATGTGGAGAAGCCAGCCCCCAGTGCAGCCTGCGGC
TCTCCGGCTTCCAGCTGGTGGCCACGCCAGCCTGGAGCTGGGGCCGATCCAGCCGGGGAGGAGAAGGCACTG
GAGCTGCCTTTGGCCGCCAGCTCAATCCCAAGGCCACGCACACCTCCCCTGAGTCCCAACGGAGCCCCGCAGAG
GGCAGCGAGCGGCTGTGCTGAGCCCACTGCGGGGCGGGGAGGCCGGCCAGACGCTCACCACAGTGACCACA
CCCAGGTGACCAGCCCTCACTACCCGCAGAGGTGGGCTCCCCGCACTCGACCGAGGTGGACGAGTCCCTGTG
GTGCTCTTTGAGCAGGTGCTGCCGCCATCCGCCCCACAGTGAGGCTGGGCTGAGCCTCCCGCTGCGTGGCCCC
CGGGCGCGGCGCTCGGCTTCCCCACACGATGTGGACCTGTGCCTGGTGTACCCCTGTGAATTTGAGCATCGCAAG
GCGGTGCCAATGGCACCGGCACCTGCGTCCCCCGGCAGCTCGAATGACAGCAGTGCCCGGTACAGGAACGGGCA
GGTGGGCTGGGGGCCGAGGAGACGCCACCCACATCGGTGAGCGAGTCCCTGCCACCCCTGTCTGACTCGGATCCC
GTGCCCTTGGCCCCCGGTGCGGCAGACTCAGACGAAGACACAGAGGGCTTGGAGTCCCTCGCCACGACCCCTTG
CCTGACCCCTCAAGGTCCCCCACCCTGACCTGACCCATCCAGCATCTGCATGGTGGACCCCGAGATGCTGCCC
CCCCAAGACAGCACGGCAAACGGAGAAGCTCAGCCGCACCCGGAAGCCCTGGCCCGCCCCAACTCACGCGCTGC
CGCCCCAAAGCCACTCCAGTGGCTGCTGCCAAAACCAAGGGCTTGTGGTGGGGACCGTGCCAGCCGACCACT
CAGTGCCCGGAGTGAGCCAGTGAGAAGGGAGGCGGGCACCCCTGTCCAGAAAGTCTCAACCCCCAAGACTGC
CACTCGAGGCCCGTGGGGTCCAGCAGCAGCGGCCCGGGGTGTGAGCCACCCACCCAAAGTCCCCGGTCTACCT
GGACCTGGCCTACCTGCCAGCGGGAGCAGCGCCACCTGGTGGATGAGGAGTTCTTCCAGCGCGTGCGCGCGCT
CTGCTACGTATCAGTGGCCAGGACCAGCGCAAGGAGGAAGGCATGCGGGCCGTCTGGACGCGCTACTGGCCAG
CAAGCAGCATTGGGACCGTGACCTGCAGGTGACCTGATCCCCACTTTCGACTCGGTGGCCATGCATACGTGGTA
CGCAGAGACGCACGCCCCGACAGGCGCTGGGCATCACGGTGTGGGCGAGCAACAGCATGGTGTCCATGCAGGA
TGACGCCTTCCCGGCTGCAAGGTGGAGTTCTAGCCCCATCGCCGACACGCCCCCACTCAGCCCAGCCCGCTG
TCCCTAGATTACGCCACATCAGAAATAAACTGTGACTACACTTG

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FIGURE 5333

MAAVAGSGAAAAPSSLLLVVGSEFGSPGLLTYVLEELERGISWDVDPGVCNLDEQLKVFVSRHSATFSSIVKGQ
RSLHHRGDNLETIVLLNPSDKSLYDELRLNLLDPASHKLLVLAGLCLEETGELLQTGGFSPHHFLQVLKDREIR
DILATTPPPVQPPILTITCPTFGDWAQPAPAVPGLQGALRLQLRLNPPAQLPNSEGLCEFLYVAESLEPPSPFE
LLEPPTSGGFLRLGRPCCYIFFGGLGDAAFFAVNGFTVLVNGGSNPKSSFWKLVRHLDRVDAVLVTHPGADSLPG
LNSLLRRKLAERSEVAAGGGSWDDRLRLISPNLGVVFFNACEAASRLARGEDEAELALSLLAQLGITPLPLSRG
PVPAPKPTVLFKMGVGRLDMYVLHPPSAGAERTLASVCALLVWHPAGPGKVVVRVLFPGCTPPACLLDGLVRLQH
LRFLREPVVTPQDLEGPGRAESKESVGSRDSSKREGLLATHPRPGQERPGVARKEPARAEAPRKEKEAKTPREL
RKDPKPSVSRTQPREVRRASSVPNLKKTNAQAAPKPRKAPSTSHSGFPPVANGPRSPPSLRGGEASPPSAACGS
PASQLVATPSLELGP IPAGEEKALELPLAASSIPRPRTPSPESHRSAPAGSERLSLSPLRGGEAGPDASPTVTTP
TVTTPSLPAEVGSPHSTEVDESLSVSFEQVLPPSAPTSEAGLSLPLRGPRARRSASPHDVLCLVSPCEFEHRKA
VPMAPAPASPGSSNDSSARSQERAGGLGAEETPPTSVSESLPTLSDSDPVPLAPGAADSDDETEGFGVPRHDPLP
DPLKVPPLPDPSSICMVDPEMLPPQDSTANGERQPHPEAPGPPQLTRCRPQSHSSGCCQNGACWWGPCQPTTQ
CPE

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FIGURE 5334

CTTTTGCGGGTGGCGGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACGCTACGAGAGTACAAGGTAGTGG
GTCGCTGCCTGCCCCACCCCCAAATGCCACACGCCGCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCTG
TCGCCAAGTCCCGCTTCTGGTACTTTGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT
GTGGGCAGGTGTTTGAGAAGTCCCCCTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCAGTGCTACCGAGACATGG
GTGCCCCGGCACCGCGCCCCGAGCCCACTCCATTAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCTGCGCCGTCAGCACA
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGTCCGGGTGTGCCCCAAATAA
ACTCAGGAACGCCCCGGT

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FIGURE 5335

MKASGTLREYKVVGRCLPTPKCHTPPLYRMRI FAPNHVVAKS RFWYFVS QLKMMKKSSGEIVYCGQVFEKSPLRV
KNFGIWLRYDSRS GTHNMYREYRDLTTAGAVTQCYRDMGARHRARAHSIQIMKVEEIAASKCRRPAVKQFHDSKI
KFPLPHRVLRRQH KPRFTTKRPNTEF

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FIGURE 5336

CGGCGCTGGGGTAAGAAGCCTGCTGAGGGATGCCCCAAGAAGTTCCAGGGTGAGAACACCAAGTCGGCAGCGGCCC
GGGCACGTAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATGCCTACTGGAAGG
ACGACGACAAACACGTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGCGCCTCGACCAGCTGGAAC
GTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGCCGCGGGTGGCCA
CGTCCAGCAAGGTCACCCGGGCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGGAGGCCCCGGACA
CAGCCGAGAAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCGTCTGGAGGAGGGCA
GCGTGGAGGCGCGCACCATCGAGGACGCCATTGCACTGCTCAGCGTGGCGGAGGAGGCGGCCGACCGGCACCCAG
AAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAGAGAACCCCAACA
TGCGGCTGTGCGAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCATGAACCAGCGGG
CCGTGCCCTTCAATGCCCCCAAGTGAGCCCAGAACTTGGGGAGCCAGTTCACCCACGGGTGGTCCAGGTCACGAC
TCTGCACGCCCTTAGGCCAGGTCAGCTGCGAGGGTCACAGAGCGTTCCGGGGGCCAAGGCGCCGGGCCCCGGGGC
CATGCTCTTATCACCAGCCACCCGTCCTCCCGCCAGAGGGTCCCTGCCCGAGTGACACCCCATCCCCTCCCATC
CCCCGGCGCGTGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCT

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FIGURE 5337

CCTGAAGGCTGTGGGACCCATGATCCTGGTTAGATTCTCCTTCTGCTTGTCCCTGGCTGTGCTGCCTCAGGCACA
TTACTTAACCTTTCTGGGCCCTCTGCCACCTCATCTGTAAAAATGGGCATGATGGTGAAGCCAGGTTGCCAGATAAA
ATATAGGCTACTCAGCTAAATGTGAAGTTCAGATCAATATTGAATTTGGTTTTACTGTAAGTATATCCCATGCAA
CATTTGGGATATACTTATACTAAAAAAAATTATTCATTGATGCTATGGTTTGAATGGTCCCCCAAAGTTTCATAT
GTTTGAAACTTAATCCTCAAAGCAGTCCCTTTCAACCTTGTCACCTGTCGGCGCGGCCTCTGGTGCAGTGGCGGC
GGCTCCTGTTCCTGCCGCAGCTCTCTCCCTTCTTACCTCCCCACCAGATCCCGGAGATCGCCCGCCATGGCTTT
ACTTACTGCGGCCCGCCGGCTCTTGGGAACCAAGAATGCATCTTGTCTTGTCTTGCAGCCAGCATGCCAGTGC
TTCTCCATGAATTTGAAAGACATATTGGCTGACCTCATACCTAAGGAGCAGGCCAGAAATTAAGACCTTCAGGCA
GCAACATGGCAAGAAGGTGGTGGGCCAAATCACTGTGGACATGATGTATGGTGGCATGAGAGGCATGAAGGGATT
GGTCTATGAAACATCAGTTCTTGATCCTGATGAGGGCATCCGTTTCTGAGGCTTTAGTATCCCTGAATGCCAGAA
ACTGCTACCCAAGGCTAAGGGTGGGGAAGAACCCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGATGTAT
CCCAACAGAGGAACAGGTATCTTGGCTCTCAAAAGAGTGGGCAAAAGAGGGCAGCTCTGCCTTCCCATGTGGTCAC
CATGCTGGACAACCTTTCCACCAATCTACACCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAACAGTGA
AAGTAACTTTGCCCAAGCATATGCACGGGGTATCAGCCGAACCCAAAGTACTGGGAGTTGATTTATGAAGACTCTG
TGGATCTAATCACAAGCTACCTTGTGTCTGCAGCAAAGATCTACCGAAATCTCTATGGAGAAGGCAGTGGTATTG
GGGCCATTGACTCTAACCTGGACTGGTCTCACAGTTTCACCAACATGTTAGGCTATACTGATCATCAGTTCCCTG
AGCTCATGCACCTGTACCTCACTATCCACAGTGACCATGAGGGCGGCAATGTAAGTGCCCATACCAGCCACTTGG
TGGGCAGTGGCCTTTTACAGCCCTTACCTGTCTTTGCAGCAGCCATGAACGGGCTGGCAGGGCCTCTCCATGGAC
TGGCAAATCAGGAAGTGCTTGTCTGGCTAACACAGCTGCAGAAGGAAGTTGGCAAAGATGTGTGAGATGAGAAGT
TATGAGACTACATCTGGAACACACTCAACTCAGGACGGGCTGTTCCAGGCTATGGCCATGCAGTACTAAGGAAGA
CTGATCCACGATATACCTGTCAGCGAGAGTTTGTCTGAAACACCTGCCTAATGACCCCATGTTTAAAGTTGGTTG
CTCAGCTATGCAAGATTGTGCCAATGTCTCTTAGAGCAGGGTAAGGCCAAGAATCCTTGGCCCAATGTAGATG
CTCACAGTGGGGTGTCTGCTCCAGTATTATGGCATGATGGAGATGAATTACTACACAGTCTGTGTTGGGGTGTAC
GAGCATTGGGTGTACTGGCACAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTCTAGAAAGGCCAAAGTCCATGA
GCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAAACTGGAGACTGGGGGAAAGTGACTACCAGA
AAGTGAGGAAGCCTAAATAAAAAGTATACTTTTGTTCAGGGGCGCTTTAAAGACTTAAGATTAAATTATATCTG
AGGCACTGATAATATGTTTGGAGTTAAATATAAATTAAGACTTTAAAGATGAAAAATGGTCCCTTCTTCCCTA
ATCAGCTCCTTTCCCTGCCTGGTATGAGTTGCCCATCACAGGCATGGTCTCTGGAGGATGACCAGGACTAATGCA
TGTGGTATGAGTAGGTTTGGCCCCCTCACTATCTCTAGAGTGAGAATCTGGCTCCTGTTTCCATGGCTCAAAGCC
GGTTGCAGAGAATCTGCAGTCACTTCGGAGCTTTAGCTTCTTCTCTGCCAAGCCCTCAATAAGCCAGCAAACCAG
GACTCTGCCCTTCTGTTTCCATAGGAATCATGTTGGATAGTCAGCTGTACCAAGCCCTTGGCCTTCCCATGCA
CACAAACACCTCCTAGCAAGACCTGTTGGTTAGCTGGACATGCTTTGGCAATTTTTTTTATACTGCCAAGTGACCA
TAAAGGCATGGCATTGTTGTGACTGGCACCCAATGTTTGATTTTTTTTTTAAACTATCCAATTAATAAGGT
CTGGGAGTGTTCTGTTTCCCATTACTTTAATACTACCCCCCTCCCAGACTTTCTACACCTGTTTCACCTCAGGC
TGAGGATGTTCTGGACCTCCCCCTCTTAGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCAGTCATTGGG
TTTTATCAGTGCTTAATGTGAACATAAGTTTTTACTTCCAACAGAATACAAGCCACTACCTTCTGACCTCCCCAC
CCCCACCAACCCCCAGCTTTTAAATATGCTGTGGGGCATAGAACAGGGACTCCGGAATGACCAGCATGATATTTT
CAGAGTCTTGTCCCTGGGGTATTAGCACCTCTTTTTGAACAGAGAATTGATTCAAGATTGGACATGGTCTCCTCT
GATTATCAGGTACTGGGGCTGAGGGCATTAAAAATAGTAAGCCTCCTTCCCTCGTCCCTGCCTCAAGAAATTGCC
TCCTTATTTATCAACATCTTTTTCTCCCTTTCCCTGAGAGCTCACAGTACAATGTTTGTTCAGAAGCCCCATT
TGCACAGGTTTTTCAGCAACTCAGAATGCTCTACTTCTTTTTCTTTGAGAAAGGATTGAGATACGCTCCTGCTGTG
CCCCATCTTTCTCCAACTCCTGCCTGTGTTTGTGTGGATACCCAGTCCCAGAACCACACTGTTGAGTTGGAC
ACACTGTAAACCCCTGGCTAACTGTCAAGTCATGATGCAGACTTCAGGTTGTTCTGTATAAAATGCAAAATAAAT
GTTTTAATTAAC

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FIGURE 5338A

TGGGCACTGAGCACATTTCGGTTATTTCCAGAAAACGCTCCGCGGTCTTGGGGATCAGCCTCAGTTGTGCCAGTGCG
GCCGTAGAGAGTGTTCGGCCATTTCCGAAAGCGCTCGGGCGTCTCTAAGCCCAGCCGAGCCAGTCTCGGATCCC
TCGCCGACCCGATTGCACTCGGCTACCTCTGGAACGCTCGGCTGTCTCGGGGGCACCCTCTAGTCCACCAAGTCC
CGCGGGATTACGTTTCGGCTACTTCCGGAACACTCGGGTGCCTTACCTCAGGCTCCGCCCTCGGCCTCGGTTTC
ATCCGCCCCGGCTCGAATGCGCTCGGGCATTTCGCGCGGGGGCGGGCCAGGCCGCTCGGAACCGTGGCGGGCGGG
AGGCGGGGATCCCGCGGCTGCGGCGACGGTGGCCGCGGTGGAGCCACGGGGCGGGCTTGGCTTGGTGTGACGGCG
GCTGCGGGCGGCGGTGGCGGCCGCGACAGGTGGCGTCTCAGCTGGCCGAGCATGGTGGCAGCCTGCACCCCTTG
GCTCCCTTGTCTGGTGCAGCCAGCAGAGCCGCCAGCCTTGGGCGCCCATGGCCCTCCGTGTGAGGGCGGTGAGCGG
CCTGCCCCAGCCTCACCTGCTGATGGAGGACTCAATGGCCAGTGACCTGACACCACACCACCAACTCCCTCCCA
CCAGCTGACGAATGGTGGACCCAGTGACGAGTGGCCCTTGTAAAGGTCATGGAATAATTTGAAGCGAGGCATGAG
CGGCCCTGTGGTGCCTGTGACTGCTGGAGATAGAGGTCCCAGCACCCTAAGCCAACCCAGCGGACCCCTCCCAG
CCCTGCTTCAACCAATGGGGCCAGTGGGGCTCCAAGCAGCCACCTAACCATCCAGACCCCAACCCACTCACGCGG
CCATGGCGGGCCCTGAGGGCTTCCAGTACCGCGCTCTGTACCCGTTCGCGCGGGAGCGGCGCGGAGGACCTGGAGC
TGCTGCCGCGCGACGTGCTGGTAGTGAGCCGGCGGCCCTTGCAGGCGCTGGGCGTGGCCGAGGGTGGCGAGCGCT
GCCCACAGAGCGTGGGCTGGATGCCGGCCCTCAACGAGCGCACACGGCAGCGAGGTGACTTCCCTGGCACCTATG
TGGAGTTCCTGGGGCCCGTGGCCCTGGCCCGGGCCCGGCCCTCGCCACGGGGCCCCCGCCACTGCCCGCCAGGC
CCCGTGATGGGGCCCTGAGCCAGGCCTCACACTCCCGACTTGGCCGAGCAGTTCTCCCCACCTGATGTGGCTC
CCCCCTCTCTGGTGAAGCTTGTGGAGGCCATTGAAAGGACAGGGCTGGACAGCGAATCTCACTACCGCCCGGAGC
TGCCCGCACCGCGTACAGACTGGTCCCTGAGCGACGTGGATCAGTGGGACACGGCAGCCCTGGCTGACGGCATT
AGAGCTTCCTGCTGGCACTGCCGCGCGCGCTCGTGACCCCGAGGCCCTCGGCCGAGGCGCGCGGGGCCCTGCGGG
AGGCCGCGGGGCCCGTGGGGCCGGCGCTGGAGCCACCGACGCTGCCGCTGCACCGCGCGCTCACGCTGCGCTTCC
TGCTCCAGCACCTGGGCCGCGTGGCCAGCCGCGCCCGGCCCTGGGTCCCGCGGTCCGGGCCCTGGGCGCCACCT
TTGGGCGGCTGCTGCTGCGCGCGCGCGCCCGCGCTCTCGCCGCGCCAGGGGGCGCTCCCGACGGGAGTGAGC
CAGCCCTGACTTCCCGCGCTGCTGGTGGAGAAGCTGCTTCAGGAACACTTGGAAGAGCAGGAGGTTGCGCCCC
CAGCGCTGCCGCTAAACCCCCCAAGGCAAAGCGGCCCTCCACAGTCTTGCCAATGGAGGGAGCCCCACCCCTCC
TGCAGGATGCTGAGTGGTACTGGGGGGACATTTCAAGGGAGGAGTGAACGAGAACTCCGGGACACTCCCGATG
GCACCTTCCTAGTCCGAGATGCTTCTAGCAAGATCCAGGGCGAGTACACGCTGACCTCAGGAAAGCGGGGAACA
ATAAGCTGATCAAGGTCTTCCACCGAGATGGGCATATGGCTTCTCAGAGCCACTACCTTCTGCTCCGTGTGTGG
ACCTCATCAATCACTACCGCCACGAGTCTCTGGCCAGTACAATGCCAAGCTGGACACACGGCTCCTCTACCCCTG
TGTCAAATACCAGCAGGACCAGATTGTCAAGGAGGACAGCGTGGAGGCACTGGGCGCCCACTTAAGGTCTATC
ACCAGCAGTACCAGGACAAGAGCCGCGAGTATGACCAGCTTTATGAAGAGTACACACGGACCTCCAGGAGCTGC
AGATGAAGCGTACTGCAATTGAGGCCCTTCAATGAGACTATCAAGATCTTTGAAGAGCAGGGCCAGACTCAAGAGA
AATGCAGCAAGGAATACCTGGAGCGCTTCCGGCGTGAGGGCAACGAGAAAGAGATGCAAAGGATCCTGCTGAACT
CCGAGCGGCTCAAGTCCCGCATTGCCGAGATCCATGAGAGCCGCACGAAGCTGGAGCAGCAGCTGCGGGCCAGG
CCTCGGACAACAGAGAGATCGACAAGCGCATGAACAGCCTCAAGCCGGACCTCATGCAGCTGCGCAAGATCCGAG
ACCAGTACCTCGTGTGGCTACCCAGAAAGGCGCCCGGCAGAAAGAAAATCAACGAGTGGCTGGGGATTAAAAATG
AGACTGAGGACCAGTACGCACTCATGGAGGACGAGGACGATCTCCCGCACCACGAGGAACGCACTTGGTACGTGG
GCAAGATCAACCGCACGCAGGCAGAGGAGATGCTGAGTGGCAAGCGGGATGGCACCTTCTCATCCGCGAGAGCA
GCCAGCGGGGCTGCTACGCTGCTCCGTGGTAGTGGACGGCGACCAAGCACTGCGTCATCTACCGCACGGCCA
CCGGCTTCGGCTTCGCGGAGCCCTACAACCTGTACGGGTGCTGAAGGAGCTGGTGTGCACTACAGCACGCCT
CGCTGGTGCAGCACAAACGACGCGCTACCGTACCCCTGGCGCACCCAGTGCAGCGCCCCGGGCCCCGGCCCGC
CTGCCGCCCCGCTGAGCACCGAGGACCCGCCCCAAGCAGAGCCGCCCTGGGCCCCGTGCGCGCGGAGGCTGCGGC
GGCGGGAGCCACGGACCAGACCAGCCACATCCAGGGTCTCATTCTCCGGCTCTGGCTCTTGTGTTGGGTCTCT
CTCACCTCTTTCTCTTTCTTCCCTCCCCATTCTCCAGATCTCCCTCTGTCTCCTTTTCTGTCTTTCTTGG
CCCTGTCTCTCTCCATGTTGGGGTCTTAACCTCCCCACCCATATCTACGTGTCTCCGGGCATTGCCCTCTC
CATGGCTCTGGTACCCCTGACCCTCTGCCCTGCCACCGCAGGTCCCCCGGGGTCCCGGAAGCCCCCTTCTGGCTG
CACCTGCCATGTTTACAGAGGGCCCTGGGCTGCGCGGCCCGCAGCCTGGGCACCCGTATTTTAAAGCCATAGACC
TGGGGTCAGGGCAGGAAGGAACCTTCACTCTGCTGCTTCCGAGAACCTCGGCCGTGACATTGCGGGCCGGGCGGGA

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FIGURE 5338B

CCCGCCCCACAGACTCCAACCTTCCCCTCCAAACCCCGAAGTGAAAACCGCCACCGGGTTACCCCCACAAGGGGGC
CGCTGCGAGAAGTTCACCCACCCCGAAAAATAATTAAACTCGCAGGCCAGGCACGGTGGCTCATGCCTGTAAT
CCCAGCACTTTGGGAGGCCAAGACGGGCGGATCTTTTGAGGTCGGGAGTTGGAGGCCAGCCTGGCCAAAATGGCA
AAACCCCGCATCTACTAAAATACAAAAATTAGCCGGGCGTGGTGGCGGCCGCTGTAATCCCAGCTACTTGGGAG
GCTGAGGCGTGAGAATCTCTTGAACCCAGGAGATGGAGGTTGCAGTGAGCAGAGATCGTGCCACTGCACTCCAGC
CTGGGTAACAGAGGGAGACTCCTCCGTCTCAAAAAATAAATAAAATAAACTTGTGAGCTGGCCCCAACCCCTCCT
AGGAATCACAGCTCCCCGTACTGGTGCCGCCGAGTGGCCAAGTTGCGACACTGCCCACGGCCCCCTCCCTCTGAT
GCAGATTCAGGGCTTCTCTTCGATCATGTTGGGTTTTGATTCTGTTTTTCCTTGACTGCAAAACCCCTCTTTCTC
TCCTCTTTTGGGACAAGAGCCCTGGTTTTCTACGCTGCCCTTGGCCACCACACTGCCTGCCCCACGAGCTGGGAG
GCAGGTTTTGTACGGTACGTTGTTATTGATATGATATAAAACATCAAACGTC

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FIGURE 5339

GGACCGCCGCCTGGTTAAAGGCGCTTATTTCCAGGCAGCCGCTGCAGTCGCCACACCTTTGCCCCCTGCTGCGAT
GACCCCTGTCGCCACTTCTGCTGTTCCCTGCCACCGCTGCTGCTGCTGCTGGACGTCCCCACGGCGGGCGGTGCAGGC
GTCCCCCTCTGCAAGCGTTAGACTTCTTTGGGAATGGGCCACCAGTTAACTACAAGACAGGCAATCTATACCTGCG
GGGGCCCCCTGAAGAAGTCCAATGCACCGCTTGTCAATGTGACCCCTCTACTATGAAGCACTGTGCGGTGGCTGCCG
AGCCTTCCCTGATCCGGGAGCTCTTCCCAACATGGCTGTTGGTCATGGAGATCCTCAATGTCACGCTGGTGCCCTA
CGGAAACGCACAGGAACAAAATGTCAGTGGCAGGTGGGAGTTCAAGTGCCAGCATGGAGAAGAGGAGTGCAAATT
CAACAAGGTGGAGGCCTGCGTGTGGATGAAC TTGACATGGAGCTAGCCTTCCTGACCATTGTCTGCATGGAAGA
GTTTGAGGACATGGAGAGAAGTCTGCCACTATGCCTGCAGCTCTACGCCCCAGGGCTGTCGCCAGACACTATCAT
GGAGTGTGCAATGGGGGACCGCGGCATGCAGCTCATGCACGCCAACGCCACGCGGACAGATGCTCTCCAGCCACC
ACACGAGTATGTGCCCTGGGTACCGTCAATGGGAAACCC TTGGAAGATCAGACCCAGCTCCTTACCCTTGTCTG
CCAGTTGTACCAGGGCAAGAAGCCGGATGTCTGCCCTTCCTCAACCAGCTCCCTCAGGAGTGTGTTGCTTCAAGTG
ATGGCCGGTGAGCTGCGGAGAGCTCATGGAAGGCGAGTGGGAACCCGGCTGCCTGCCTTTTTTTCTGATCCAGAC
CCTCGGCACCTGCTACTTACCAACTGGAAAATTTTATGCATCCCATGAAGCCCAGATACACAAAATTCCACCCCA
TGATCAAGAATCCTGCTCCACTAAGAATGGTGCTAAAGTAAAAGTAGTTTAAT

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FIGURE 5340

MTLSPLLLFLPPLLLLLLDVPTAAVQASPLQALDFFGNGPPVNYKTGNLYLRGPLKKSNAPLVNVTLYYEALCGGC
RAFLIRELFPTWLLVMEILNVTLPYGNQEQNVSGRWEFKCQHGEEECKFNKVEACVLDELDMEFLAFLTIVCME
EFEDMERSLPLCLQLYAPGLSPDTIMECAMGDRGMQLMHANAQRTDALQPPHEYVPWVTVNGKPLEDQTQLLTIV
CQLYQGKKPDVCPSSSTSSLRVCFK

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FIGURE 5341

ATGTGCCCAGAAGGATGTCAGTACACGGGGAGGGGCCACACGCTGAGGACCCCGCAGCTAGGCGAGGCAGGAGGC
CTCCACCAGCCTCCAGGCCTCTGCCCCGCGCCGTTCCCTCCGCCTGGAATGCGCCTCCCGCCCCAACCCAACCCCTG
TGTTTACTGCGACTTCCCTCCCTTCGGCCTGGCCCTGACCCCTC~~C~~GGGGCAGGGCGTGTCCGTGTCTGGCTGCTA
GCACCACCCTGCCCTCAGTCTGTCAGCGGGGAAATGGCTCAGTACCTGGAAAAGCCACGAGTATGTGGTCGGATG
CAGGCAAAACCCACACATCATGACACTGCCCTGAGAAGTGGGATAACGTCCCTCACCACCTCGTGGAGCTGCTGCT
GAGATAAAGGTGAAAATGCAGAGTCCCGGACCAAGCCCTAGTGTGCCCCAACCTCATCTGCAACTTTCATTGCC
TTGGGGACTTTCAGGATTAAGCGATTCTTGACAAGAAACAAAAGCAAAATCGTCCCATTCCCCAGTGGATTGG
ATGAAAAC TGAAATAAAATCAGGTACAAC TCCAAAAGGACACTGGAGAAGAACCAAGCTGGGTCTATAAGGAAT
TGCACA TGA

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FIGURE 5342

MCPEGCQYTGRGHTLRTPQLGEAGGLHQPPGLCPRRSLRLECASRPNPTLCLLRPLSLRPGPDPSGAGRVRVWLL
APPCPQSVSGEMAYLEKPRVCGRMQAKPTHHDALRSGITSLTTRGAAAEIKVKMQSPGPSVAPTSSATFIA
LGTFRIKRFLDKKQKQNRPIQWIWMKTGNKIRYNSKRTLEKNQAGSIRNCT

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FIGURE 5343

GCAACCTGCACAGCCATGCCCGGGCAAGAACTCAGGACGGTGAATGGCTCTCAGATGCTCCTGGTGTGCTGGTG
CTCTCGTGGCTGCCGCAIGGGGGCGCCCTGTCTCTGGCCGAGGCGAGCCGCGCAAGTTTCCCGGGACCCCTCAGAG
TTGCACTCCGAAGACTCCAGATTCCGAGAGTTGCGGAAACGCTACGAGGACCTGCTAACCAGGCTGCGGGCCAAC
CAGAGCTGGGAAGATTCTGAACACCGACCTCGTCCCGGCCCTTGCACTCCGGATACTCACGCCAGAAGTGC GGCTG
GGATCCGGGCGGCCACCTGCACCTGCGTATCTCTCGGGCCGCCCTTCCCGAGGGGCTCCCCGAGGCCTCCCGCCTT
CACCGGGCTCTGTTCCGGCTGTCCCCGACGGCGTCAAGGTCGTGGGACGTGACACGACCGCTGCGGGCTCAGCTC
AGCCTTGCAAGACCCCAGGCGCCCGCGCTGCACCTGCGACTGTGCGCCGCCGCCGTGCGAGTCGGACCAACTGCTG
GCAGAATCTTCGTCCGCACGGCCCCAGCTGGAGTTGCACTTGCGGCCGCAAGCCGCCAGGGGGCGCCGCAGAGCG
CGTGCGCGCAACGGGGACCACTGTCCGCTCGGGCCCGGGCGTTGCTGCCGTCTGCACACGGTCCGCGCGTGCCTG
GAAGACCTGGGCTGGGCGGATTGGGTGCTGTGCGCCACGGGAGGTGCAAGTGACCATGTGCATCGGCGCGTGCCCG
AGCCAGTTCCGGGCGGGCAAACATGCACGCGCAGATCAAGACGAGCCTGCACCGCCTGAAGCCCCGACACGGTGCCA
GCGCCCTGCTGCGTGCCCGCCAGCTACAATCCCATGGTGCTCATTCAAAAGACCGACACCGGGGTGTGCTCCAG
ACCTATGATGACTTGTTAGCCAAAGACTGCCACTGCATATGAGCAGTCCTGGTCCTTCCACTGTGCACCTGCGCG
GAGGACGCGACCTCAGTTGTCCTGCCCTGTGGAATGGGCTCAAGGTTCTGAGACACCCGATTCTGCCCCAAACA
GCTGTATTTATATAAGTCTGTTATTTATTATTAATTTATTGGGGTGACCTTCTTGGGGACTCGGGGGCTGGTCTG
ATGGAAGTGTGTATTTATTTAAACTCTGGTGATAAAAATAAAGCTGTCTGAAGTGT

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FIGURE 5344

MPGQELRTVNGSQMLLVLLVLSWLPHGGAISLAEASRASFPGPSELHSEDSRFRELKRYEDLLTRLRANQSWED
SNTDLVPAPAVRILTPEVRLGSGGHLHLRISRAALPEGLPEASRLHRALFRLSPTASRSWDVTRPLRRQLSLARP
QAPALHLRLSPPPSQSDQLLAESSSARFQLELHLRFQAARGRRRARARNGDHCPLGPGRCCLHTVRASLEDLGW
ADWVLSPREVQVTMCIGACPSQFRAANMHAQIKTSLHRLKPDTPAPCCVPASYNPMVLIQKTDITGVSLQTYDDL
LAKDCHCI

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FIGURE 5345

GAGGAAAAAAGCCACCCTGCGGCCGGGGCCGGAGCTGGAGCCGCCGCTGCCGCCGCCGCCGCCGCCGCTCTGGAG
CTCCCCCGCGCGGACGATGCCTGCCGTGCCCGCTGGGGCTCGGGGCGGTGAGGCCCCGGGGCGCGGGGTAGCTAT
GGCGACGGCAAGCGCGGCCCGCGGGCGCCGCTGACAGGTGTGGGCCCCGGCGGGCGGGCGTGGAGCAGCATGTA
CGCCAAGGGGGGCAAGGGTTCGGCCGTGCCCTCCGACAGCCAGGCCCCGCGAGAAGTTGGCGCTGTACGTTTATGA
GTACCTGCTGCACATCGGTGCCCAGAAGTCAGCCCAGACCTTCCTGTCTGAGATCCGATGGGAGAAGAACATCAC
GCTGGGGGAGCCCCCTGGGTTTCCTGCACTCCTGGTGGTGCCTCTTCTGGGACCTGTACTGCGCGGCGCCTGACAG
AAGAGAGGCCTGCGAGCACTCCGGCGAGGCCAAGGCCTTCCAGGACTATAGTGCTGCAGCCGCCCCAGCCCCGT
TATGGGGAGTATGGCCCCAGGTGACACAATGGCCGCAGGCTCCATGGCGGCTGGCTTCTTCCAGGGCCCCCCCCGG
CTCCCAGCCGTCCCCCACAACCCCAACGCCCCCATGATGGGGCCTCACGGTCAGCCCTTCAITGTCACCGCGCTT
CCCAGGGGGCCCCCGGCCACCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCCTGGCTCCCAGCCCCCTCCT
CCCTGGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCC
TCCTCGTGGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCCAATCCCTCGCCGG
CCCAGGCCTGCCTGCCATGAACATGGGCCCAGGAGTTCGTGGCCCGTGGGCCAGCCCCAGTGGAACTCGATCCC
CTACTCCTCCTCATCCCCCGGCAGCTACACCGGACCCCCAGGAGGAGGTGGGCCCCCTGGAACACCCATCATGCC
TAGCCCTGGAGATTCCACCAACTCCAGCGAAAACATGTACACTATCATGAACCCCATCGGGCAGGGCGCCGGCAG
GGCTAATTTCCCGCTCGGCCCTGGCCCGGAGGGCCCCATGGCCGCCATGAGCGCGATGGAGCCTCACCACGTGAA
CGGATCCCTGGGCTCGGGCGACATGGACGGGTTCGCGAAGAGTTCCCCCGCGCCGTGGCCGGCCTGAGCAACGC
CCCGGGCACCCCGCGGGACGACGGCGAGATGGCGGCCGCCGGGACCTTCCTGCACCCGTTCCCGAGCGAAAGCTA
CTCGCCAGGGATGACCATGAGCGTTGATGGGGCGGCAGCCCCGGGCCTCTCTGCGGGCCTAGGCTTCTGCCCAG
CGCCCCTGCTCAGGGCGAGGGGCTGAGGTACACCTCGGGCACCTGGACTCCTGGCCAATCAAGGCTTGCCAGC
TGGGAGGCCCCACACGAAAGACTCTTACCATTTTATTAAAAACGCAAGGACCTCAGAGACGTTCTTTCTGTATG
GACCCTTCCTGCCATTTGTATTTTGTCCCAGAGAGAAAGGCTCTTTGGGGGGCCCCCTCTCCCCAGGACGTCAGGG
GGTGGGGCCCATAAATAAATGGAAGCTGGTTTTGGTTTTTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5346

MYAKGGKGS AVPSDSQAREKLALYVY EYLLHIGAQKSAQTFLSEIRWEKNITLGEPPGFLHSWWCVFWDLYCAAP
DRREACEHS GEAKAFQDYSA AAPSPVMGSMAPGDTMAAGSMAAGFFQGPPGSQPSPHNPNAPMMGPHGQPFMSP
RFPGGPRPTLRMFSQPPAGLP GSQPLLPGAMEPS PRAQGHPSMGGPMQRVTPPRGMASVGPQSYGGGMRPPPNL
AGPGLPAMNMGPGVRGPWASPSGNSIPYSSSSPGSYTGPPGGGGPPGTPIMPSPGDSTNSSENMYTIMNPIGQGA
GRANFPLGPGFEGPMAAMSAMEPHHVNGSLGSGDMDGLPKSSPGAVAGLSNAPGTPRDDGEMAAAGTFLHPFPSE
SYSPGMTMSV

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FIGURE 5347

CGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACACACTGGTGCTGCACAACACGTGTGAG
GACTCGCTGCTGGCCGCACCCATCATGCTGGACCTAGCGCTGCTGACCGAGCTGTGCCAGCGCGTGAGCTTCTGC
ACTGACATGGACCCCGAGCCGCAGACCTTCCACCCCGTGCTGTCCCTGCTCAGCTTCCTCTTCAAGGCGCCACTA
GTGCCGCCCCGGCAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTGCATCGAGAACATCCTCAGGGCCTGC
GTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCGCCCAGGGCCCAGCCTCAAGCGAGTT
GGACCCGTGGCTGCCACCTACCCTATGTTGAACAAGAAAGGACCGGTACCCGCTGCCACCAATGGCTGCACCGGT
GATGCCAATGGGCATCTGCAAGAGGGGGCCCCCAAAGAGCCTTTCTCTCTGGGACAAAATACAAATGGCAGGAAG
GGTCCATACAGAAAAGAACGTCTCTGAGGTCTTGCGTTTTTAATAAAATGGTAAGAGTCTTTCGTGTGGGGCCT
CCCAGCTGGGCAAGCCTTGATTGGCCAGGAGTCCAGGTGCCCCGAGGTGTGACCTCAGCCCCCTCGCCCTGAGCAGG
GGCGCTGGGCAGAAAGCCTAGGCCCCGCAGAGAGGCCCGGGGCTGCCGCCCCATCACACGCTCATGGTCATCCCTGG
CGAGTACTGCGGAGAGAGGAGGGGGCAGCGCGCAGGGGCCGAGTTCAGCTCCGGAAGAGGCTGGGACCCGCCCC
AGGGACAAATGGGGGACAGGGCAGGGCTGGGTCTGGGCAGACATGGGGTGGGGACAGGAGGGAACGGGGGAGGGG
CGATGCATGGGAAGGCCGCCCTGGGGCGCGGGTCCCGGGTGGGGGCGGATGGGATCGGGACGGTGAAATAGGAG
CGGGAGGTGGTGGGGGGTGGGGAGAGGTTGAGGAGAGG

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FIGURE 5348

MLGGTNTLV LHNTCEDSLAAPIMLDLALLTELCQRVSFCTDMDPEPQTFHPVLSLLSFLFKAPLVPPGSPVVNA
LFRQRSCIENILRACVGLPPQNHMLLEHKMERPGPSLKRVGPPVAATYPMLNKKGPVPAATNGCTGDANGHLQEGP
PKEPFSLGQNTNGRKGPYRKERL

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FIGURE 5349

GACTTTGTCCCCGAGATGGATGGGGGCGGACATGGGGAGCCAGGGGATGGGACTGCCTGGTAGGTGCTGCTGCC
CACGAAGGGGGAGTAGGTGGCAGTGTGGCTCCGAGGAGATTCTGGCTTTGGAGTTCTGGTCCTCTGCCTGTTTCC
CCTGCAGTGTCTCTGACCCAGACCCCTACCTACCCCCCGGAGGCCAGCTTCCCTGCCCAGCTCCACCCCTG
GCTTGTGGCTGGGCTCATGTGTAGCCTCATTGTCTCTTGTAAAGGGGGGATAGGCAGCCATGAGCCCTGGGGG
CTGCGGAGCGAGCGAGGTGAACCTATACGCGCCGCGCTCGTGGACGCCTGGCCACTTCCGCCAGGCGGGGACCCG
ATGGCCACGGTGGCTCTGGGTGTGCGGCCCTCGAACC GGCTCTCCAGACGTTGGGCCCCCTCCCTCCCAGCGCGGG
AGAGGCGGGGAAGGGGGCGGGGCGGGGAGGGGCCGAGCGCTTTTCTCCGGAGGTGCGCGCCCCGAGAGCCCGC
GCTGTCCGCCGCCGCTGCTGAGTCGACTCTGCGCCGCCCGCCGCGATGGAGGCCGCCGCCAGTTCTTCGTGCGA
GAGCCCGGACGTGGTCTACGGCCCCGAGGCCATCGAGGCGCAATACGAGTACCGGACGACGCGCGTACGCCGCGA
GGGTGGCGTTCTCAAGGTGCACCCACGTCCACGCGCTTACCTTCCGGACCGCCCGGCAGGTGCCCGGGCTCGG
GGTCATGCTTGTGCGGTGGGGCGGGAAACAACGGCTCCACACTACCGCCGCGGTGCTGGCCAATCGACTGCGTTT
GTCCTGGCCACGCGCAGCGGCCGCAAGGAGGCCAACTACTACGGCTCGCTGACTCAGGCGGGCACCGTGAGCCT
GGGCCTGGACGCCGAGGGCCAGGAGGTGTTCTGTAACCTTACGCGCGGTGCTGCCCATGGTGGCGCCCAACGACCT
CGTGTTGATGGCTGGGACATCTCGTCGCTGAACCTGGCCGAGGCGATGCGGCGCGCAAGGTGCTGGACTGGGG
GCTGCAGGAGCAACTGTGGCCGACATGGAGGCCCTGCGGCCCCGGCCTTCTGTTTACATCCCCGAATTCATCGC
GGCCAACCAGAGCGCGCGCGCGGACAACCTCATCCAGGCTCGCGTGCGCAGCAGCTGGAGCAGATCCGAGGGA
CATCCGAGACTTCCGGTCTAGCGCGGGGCTGGACAAAGTCATAGTGCTGTGGACGGCGAACACGGAGCGCTTCTG
TGAGGTGATTCCAGGCCCTAACGACACAGCCGAGAACCTGCTGCGCACCATTGAGCTCGGTCTGGAGGTGTGCGC
CTCCACGCTCTTCGCCGTGGCCAGCATCCTGGAGGGCTGTGCCTTCTCAATGGGTCTCCGAGAACACCCCTGGT
GCCCCGAGCTCTTGAGCTCGCGTGGCAGCACCGGGTTTTTGTGGGCGGAGATGACTTCAAGTCAGGCCAGACCAA
AGTCAAGTCCGTGCTTGTGGACTTCTCATTTGGCTCCGGCCTCAAGACCATGTCCATCGTGAGTTACAACCACT
GGGCAACAACGATGGGGAGAACCTATCGGCGCCATTGCAAGTCCGCTCTAAGGAGGTGTCCAAGAGCAACGTGGT
GGACGACATGGTGCAGAGCAACCCAGTGTCTATACGCCCCGCGAAGAGCCTGACCACTGCGTGGTCATCAAGTA
TGTGCCGTACGTGGGTGACAGCAAGCGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACAC
ACTGGTGTGACAAACACGTGTGAGGACTCGCTGCTGGCCGCAACCATCATGCTGGACCTAGCGCTGCTGACCGA
GCTGTGCCAGCGCGTGAGCTTCTGCACTGACATGGACCCGAGCCGACACCTTCCACCCCGTGTGTCCCTGCT
CAGCTTCTCTTCAAGGCGCCACTAGTGCCGCCCGGAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTG
CATCGAGAACATCCTCAGGGCTGCGTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCG
CCCAGGGCCCAGCCTCAAGCGAGTTGGACCCGTGGCTGCCACCTACCTATGTTGAACAAGAAAGGACCGGTACC
CGTGCCACCAATGGCTGCACCGGTGATGCCAATGGGCATCTGCAAGAGGAGCCCCCAATGCCACCACTGAGG
CCCCGGTCACACAGTTTCTCGGCTCTTCTCCCCGCTGCCCCCACGACCCTACCTTGAAGGCCCCCACAAATAA
AGGCGCTGCCACTCAGCCCTCTTCCACCTGGGGTCTTGGGGCCTGTGACCTGA

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FIGURE 5350

GGGTGAGGAGGAAGAGGAGGAGGAAGAGGAGGAAGAGGATGACCTGAGTGAGCTGCCACCGCTGGAGGACATGGG
ACAACCCCCGGCGGAGGAGGCTGAGCAGCCTGGGGCCCTGGCCCGAGAGTTCCCTTGCTGCCATGGAGCCCGAGCC
CGCCCCAGCCCCGGCCCCAGAAGAGTGCTGGACATTCTGGGGAACGGGCTGTTGAGGAAGAAGACGCTGGTCCC
AGGGCCGCCAGGTTTCGAGCCGCCCGGTCAAGGGCCAGGTGGTCACCGTACATCTGCAGACGTCGCTGGAGAATGG
CACACGGGTGCAGGAGGAGCCGGAGCTGGTGTTCACCTCTGGGTGACTGTGACGTATCCAGGCCCTGGATCTCAG
TGTCCCACTCATGGACGTGGGGGAGACGGCCATGGTCACTGCTGACTCCAAGTACTGCTACGGCCCCCAAGGCAG
CAGGAGCCCATACATCCCCCGCACGCGGCCCTGTGCCTGGAGGTGACCCTGAAGACGGCTGTGGACGGGCCTGA
CCTGGAGATGCTCACGGGGCAGGAGCGCTGGCCCTGGCCAACCGGAAGCGGGAGTGCGGCAACGCCCACTACCA
GCGGGCGGACTTCGTCTCTGGCCGCCAACTCCTACGACCTCGCCATCAAGGCTATCACCTCCAGCGCCAAAGTGGA
CATGACGTTTCGAGGAGGAGGCACAGCTCCTGCAGTTGAAGGTGAAGTGTCTGAACAACCTGGCGGCCTCGCAGCT
GAAGCTCGACCACTACCGCGCAGCCCTGCGCTCCTGCAGCCTTGTGCTGGAGCACCAGCCAGACAACATCAAGGC
TCTCTTCCGCAAGGGCAAGGTGCTGGCCCGCAGAGGGGGAGTACAGTGAGGCCATCCCCATCCTGAGGGCAGCCCT
GAAGCTGGAACCTTCCAACAAGACGATCCACGCAGAGCTCTCAAAGCTGGTGAAGAAGCATGCGGCGCAGCGGAG
CACGGAGACCGCCTTGTAACCGGAAAATGCTGGGCAACCCAGCCGGCTGCCTGCTAAGTGCCCTGGCAAGGGTGC
CTGGTCCATCCCATGGAAGTGGCTGTTTGGGGCGACTGCTGTTGCCTTGGGGGGTGTGGCACTCTCTGTGGTCAT
CGCTGCCAGGAACTGACCCACCTAGGTGGCTGCCACCCCTCTGCACACCATGGACCTGCCCTGCGCTCCCCAAC
TCCCCCAGGCTCCCTGTCCACTGCCCTCCCTGGTCTGGCCCCCTCCTCCGGGTAGGGGAGCAAGGATTGGGGGT
CGTGACGCCAGCCAGCAGGAGGGACTGAGGCCCTCTAGGAGGAAAGCCAGAGGGAGGGGGCCCTCATTCTCTTC
AGACCCAGTTTTCCCCCACCCTCCTTACCCCGCTGGGCTAGGTCTCCGCCAGGGCTGGCCTCAGTTTCTCTCAA
CAGGCCTGGGGGAGCCCTTCCCTGCCTAGTCCCCGCTGAGTGCCAGCCCCCACCCGCTGCCGCCCCCTG
TCCAGGTTCCCTCCCCGCCACAGTGAAATAAAGCATCCCACCCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5351

MGQPPAEEAEQPGALAREFLAAMEPEPAPAPAPEEWLDILGNGLLRKKTLPVGPPGSSRPVKQVVTVHLQTSLE
NGTRVQEEPELVFTLGDCDVIQALDLSVPLMDVGETAMVTADSKYCYGPQGSRSFYIPPHAALCLEVTLKTAVDG
PDLEMLTGQERVALANRKRECGNAHYQRADFVLAANSYDLAIKAITSSAKVDMTFEEEAQLQLKVKCLNNLAAS
QLKLDHYRAALRSCSLVLEHQPDNIKALFRKGKVLAAQQGEYSEAIPIILRAALKLEPSNKTIHAELSKLVKKHAAQ
RSTETALYRKMLGNPSRLPAKCPGKGAWSI PWKWLFGATAVALGGVALSVVIAARN

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FIGURE 5352

CTTGGCGCAGGCTGGAAGAGGAGCTGGTGAGAAGACAGCGAAATGGCGCCTCCGGCCCCGGCCCCGGCCTCCGGC
GGCTCCGGGGAGGTAGACGAGCTGTTGACGTAAGAAGCGCCTTCTACATCGGCAGCTACCAGCAGTGCAATAAAC
GAGGCGCAGCGGGTGAAGCTATCAAGCCCAGAGAGAGACGTGGAGAGGGACGTCTTCTGTATAGAGCGTACCTG
GCGCAGAGGAAGTTCGGTGTGGTCCTGGATGAGATCAAGCCCTCCTCGGCCCCTGAGCTCCAGGCCGTGCGCATG
TTTGCTGACTACCTCGCCACGAGAGTCGGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATGAGCAGGAGC
GTGGACGTGACCAACATCACCTTCCTGCTCATGGCCGCCTCCATCTATCTCCACGACCAGAACCCGGATGCCGCC
CTGCGTGCGCTGCACCAGGGGGACAGCCTGGAGTGCACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGC
CTGGACCTCGCCCGGAAGGAGCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCTCACCCAGCTCGCCACT
GCCTGGGTGAGCCTGGCCACGGGTGGTGAGAAGCTGCAGGATGCCTACTACATCTTCCAGGAGATGGCTGACAAG
TGCTCGCCACCCCTGCTGCTGCTCAATGGGCAGGCGGCCTGCCACATGGCCCAGGGCCGCTGGGAGGCCGCTGAG
GGCCTGCTGCAGGAGGCGCTAGACAAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCTGTCCCA
CACCTGGGCAAGCCCCCTGAGGTGACAAACCGATACCTGTCCAGCTGAAGGATGCCCACAGGTCCCATCCCTTC
ATCAAGGAGTACCAGGCCAAGGAGAACGACTTTGACAGGCTGGTGCTACAGTACGCTCCCAGCGCCTGAGGCTGG
CCCAGAGCTGTCAGGACCATGAAGCCAGGACAGAGGCCAGGAGCCAGCCCTGCAGCCCTCCCCACCCGGCATCCA
CCTGCATCCCTCTGGGGGCAGGAGCCCACCCCAAGCAGCCCCCATCTGTTAATAAATATCTCAACTCCAAAAA
AAAA

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FIGURE 5353

MAPPAPGPASGGSGEVDELFDVKNFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAYLAQRKFGVVLDEIKP
SSAPELQAVRMFADYLAHESRRDSIVAELDREMSRSVDVTNITFLLMAASIYLHDQNPDAALRALHQGDSLECTA
MTVQIILLKLDRLDLARKELKRMQDLDEDATLTQLATAWVSLATGGEEKLQDAYYIFQEMADKCSPTLLLLNGQAAC
HMAQGRWEAAEGLLQEALDKDSGYPETLVNLIIVLSQHLGKPPFEVTNRYLSQLKDAHRSHPFIFIKEYQAKENDFDRL
VLQYAPSA

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FIGURE 5354

GACATGTCTGCTAGCCAAGGAGCACCACGAGTGGCCAGCAGCCACCAGAGCTGGGAGAGAGGCCTGGGACGGCCT
TGCCCTCCAGCCTCCAGCTGGAGCCAGCCCTGCCGCCACCTTGACTTCAGACTTACGGCCTCCAGAGCTGTGAGG
AACGAATCCCTGTTGTCTTAACCTGCCCGGGCTGTGGTGCTTTGCCACAGCAGCTCCAGGACATTGAGACAGGTG
ACCTCCCAGGGCCACTGTTTCTCCACCCCTGCACTTACTTCACCAGCTGGAGTGAAGGCAGGGAACCCCTGGGTCC
CCCAGGAGCAGCAGCTGCTGTGAGCATCACAGAAAAGCAGCCCCGGAGAGCAGGCGGTCCAGGCAGGGGCTTGTG
GTCCGTTTCATCTGGCTGCACAGCCGCGACCTCATTGGCAGGACGCCCCGGGGACAAGGAGCATCCATTAGTAATT
GGTTTTGGTTTTGATTTTGTCTTCTTGAGATACGGTCTTGCTCTGTCGTTTCAGCCTGGCATAACAGTGGCACAATC
TTGGCTTACTGCAGCCTTGATCTCCCAGGCTCAAGTGATCATCCACCTCAGCCTCCCGAATAGCTGGGACTACA
GGCAGCATCACCATGCCTGGCTAATTGTATATTTTTTAGAGATGGGGTTTTGCCTGGCCGGGCGCAGTGGCTC
ACACCTGTAATCCCAAAGCGCTGGGGTTACAGGTGTGAGCCACAGTACCCGGCCCCATTGGTAATTGTAACACCT
TAGGATGACAACATTACAGTACCAACGCTACGACAACCTGGCAGTGTTTATACACCCCTTGTTGTGCTGGAGCCTCAG
GAAGCTTTGTAAGATGGTCTTGGGAGCTCCTTGCTCCTCCCTGCATGATCCCTGTAACATGGTCCCTCAGCACG
GGGAAACAGACTCAGACCTGAAGTCACTTGCTGTGAGCTGGCACTGTGGCGAGCCCTCAGTGGAGCCTGGTT
GGTATCAGACATGCCATGCCCTCAGTGACACCTCAGACAGGGCCCTGGGCAGACAGCCCCAGATGCGCGTGGA
TGCTTACGGGGTCACAGAGCCACGTTTGAACCCAGAAGAACCAGCTTTGGTCTAGGGTGGCCCCCTCACCTGC
CTTCTCTTTTGTAGCTGCTCAATAGCCATGGGGAATGGAGGGTCTGGGTCCAGTTAGGGACATGGAGGCATGGGTG
ACCTGTGCCCTCGGAGCTGAGCCGGTCTCAGCCTTGCTGGGCTCAAGCCTGGCCCTGGCCCGCAGCACACTGG
CCATCTTCAGGGTGCAGCCAGCACCTGGGCTCTCAGGGACTGAGGGCAGCTGCCCTGGCAGTGGGGGTGCCCCA
GGGCTCCCATCCTTCTGCACGGCCCCCTCGGCACCCAGGCCGACCTCCTGCTAGAAGACGTGGCCTTGAAGCCCCAC
AGGGTTGATGGGTATGGTCAGGAGTCCCAGCTGGGCCCACCAGCCTCCTCAGGAAGGCGGGTGAGGTGGTGTG
AGACTGACGGTGCCTCCTCATGTCCCCTTGGAGCGCCCCACCCACATCTCCCGCCTCGGGTCTTGCTGGCC
CAGCATGAGAGGTGCTTCATAGGAACGGAGGGAGGACATGTCGGGACAGCTCGATGCTCGGCCTGCTGCTGCTCT
GCACCCCCAGGGCCTGGCTCACCTCTCTGGACCTGTCTGCTTCCAAGGAAGGGGACCCTCTGAGGTCCCACAGA
GGCCACCCCAGCTGTGGGTGCTGAGCATCTCTGTCTTGCAAGGACAGCATCGTGGCCGAGCTGGACCGAGAGATG
AGCAGGAGCGTGACGTGACCAACACCACCTTCTGCTCATGGCCGCCTCCATCTATCTCCACGACCAGAACCCG
GATGCCGCCCTGCGTGCCTGCACAGGGGGACAGCCTGGAGTGGTGAGTGGCCTCCCTGCTCTGGGGCCAGCCC
AGGGAGGCAAGTGCCCCCTGCCACATCTCCAGGCTGCGCACGGCCTCGCTGGCTGTCTCATGGGAGCAGAGAAA
GGTGGTGTGAAATGAGGCCCTGGCCTGCTGTCCAGGCTCCAGCTCCCCTGCCAGTGTGGGAGGCACTCCCATC
TGCGCACCAGGCTGCAGATCCAAGGACACGGTGCCAGGCTGCAACCCTCTGTTCCCAAGGGCAGAGCAGAAAAGC
GGCTTTGTCTCTGCTCGGTTTTCTGTGTCCCCACCCCCACGAAGCCTTCTGTGTCTCGGCCCTGGGCCAGTCTC
TCAGGCCTCCCCGGGCCCCCATACCGGCCCTCCTCCAGGGCCCTCTGGGGTTGGGGTGCTGAAGCCCTGCAAGG
TTGGTGCCCCCTCCACCCTAGGATGTGACTCCGGGCCATGTCCAGGGCACTGGTCACAGAAAGTGTGTGCTAGTTC
TTCCCCGTGAGCTGTCCCTGCAGTGCCTGCCTTCCACTGTGAGTTGCAAGCTGGGCATTTTCATGGTCGCTGTGGA
TCTGCTCCCATCCACCTCCATCCACAGAGGGCTTAGAATTGAGGGCGAGCCAGGCATGGTGACATGCACCTAT
GTTTCCAGCTACTTGGGAGGCGGAAGCAGGAGTATCCCTTGAGTCTGGGAGGTGGAGGCTGCAGTGAGCCGTGAT
GGTGCCACTGCACTCCAGCCTGGGTGGCAGAGCCAGACCCTGACTCACACAC

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FIGURE 5355

GCAAAACATTTCCCTGCTGGGGGCGGCGACCACCGTGAGCGTCCCGGAAGGGGCGGCAAGACGCCTCCGTCGCG
CACGAGGTGGCCTCGTTGGCTTTACCTTGGTTTCGCGGTCGTCCTTGGTTATCGTGAGCGTCCGCGAGTCTCTGGG
AGGCCAAGCCTAGGGGCGCCACAGCGCCTGCGCGCGTACGGCGGCGGGAAGGGGCTAGAGGCGGCTCCCTGGGTG
ACAACCGCGCGCCCCACCTTTCCCCACGTGGCCGCGAAGACCGGCTCAGGAGCATCTATCGGCTGCACGCCAACA
TCAACACAGGCGAAGATGGTCTCCAAGCGCATTGCCCAGGAGACCTTTGATGCAGCTGTGCGCGAGAACATCGAG
GAGTTTGCATGGGGCCAGAGGAGGCAGTGAAGAGGGCCGTGGAGCAGTTTGAATCGCAAGGGGTTGATCTGAGC
AACATTGTAAAGACGGCACCTAAAGTCTCTGCAGACGGATCCCAGGAGCCACACATGACATCCTGCAGATGCTC
AGTGACCTCCAGGAGTCTGTGGCCAGCTCTCGCCCCAGGAGGTGTCAGCATACCTCACCCGCTTCTGCGACCAG
TGCAACAGGACAAGGCCTGCCGCTTCCTCGCGGCGCCAGAAGGGGGCCTACCCCATCATCTTCACTGCGCTGGAAG
CTGGCCACTGCAGGTGACCAGGGCCTTCTGCTCCAGTCCCTCAATGCCCTGTGCGGTGCTGACTGATGGACAGCCA
GACCTCCTGGATGCCCAGGGCCTGCAGCTCCTAGTGGCCACGCTGACCCAGAATGCTGATGAGGCTGACCTGACC
TGCTCTGGGATCCGCTGTGTGCGTACGCTTGCCCTGAAACATGAACAGAAATCGGCAAGACCTGGTGAAAGCTGGC
GTGCTGCCCTCTGCTGACTGGTGCCATCACCCATCATGGCCACCACACTGACGTGGTCAGGGAAGCCTGCTGGGCC
CTGCGTGTGATGACCTTCGATGACGACATCCGTGTGCCCTTTGGCCATGCCCAACCATGCCAAGATGATTGTG
CAGGAGAACAAAGGCTTGAAGGTGCTCATCGAAGCCACCAAAGCGTTCTTGATAACCTGGCATCCTGAGCGAG
CTCTGTGGAACCTGTCCCGCCTGGCCATTGCAACGAGTTCTGCCAGGAGGTCGTCGACCTCGGGGGCCTGAGC
ATTCTGGTGTCCCTGCTAGCCGACTGCAATGACCACCAGATGAGGGACCAGAGCGGCGTTTCAAGAGCTCGTGAAG
CAAGTGCTGAGCACCCCTGCGAGCCATCGCAGGCAACGACGACGTGAAAGATGCTATTGTCCGTGCTGGTGGGACG
GAGTCCATCGTGGCTGCTATGACCCAGCATCTGACCAGCCCCCAGGTGTGTGAGCAGAGCTGCGCGGCCCTGTGC
TTCCTGGCCCTGCGTAAGCCCGACAACAGCCGCATCATCGTGGAGGGTGGCGGGGCTGTGGCAGCACTGCAGGCC
ATGAAGGCACACCCGCGAGAAGGCCGGCGTGCAGAAACAGGCTTGCATGCTGATCCGAAACCTGGTGGCCACGGC
CAGGCCTTCTCGAAGCCCATCCTGGACCTGGGGGCTGAGGCACTCATCATGCAGGCCGATCTGCCACCCGTGAC
TGTGAGGACGTGGCCAAGGCCGCCCTGCGGGACCTGGGTGTGTCATGTCGAGCTCCGAGAGCTGTGGACAGGCCAG
AGGGGCAACCTGGCGCCATGACCCAGGCCAGTCTGGGCCGTGACTCTGGGTGAGTCGTGTGACTCAGGAATGG
GGGTAGATCCATGTCTCCACTGTCCCCATTAGTTCTGTCCCCTTCACAATGAGAAGTGTCTTCTGGCAGGCC
TAGGTAAAGGGTCGGGGGAGGGGGAGCCTTGTAGGGAGGCCTCTACACAGAAGAAAGCAGCCCCCATGTCCAG
CCACTTCTGGGTCCAGCCAGCAGCAGGATGTTACTGTCTGCTCCTTCCCCAGCCCCACGCCCTACCAGAGG
GGGCAAAGGGCAGTCCCATCACTCACTGCCCTGTCTGAAATGTGGCAGCCACTGTGGGCCAGGCTCAGGGCAGG
GCAGGCGATTCCAGTGGGGTTGGGCCCCCTGGCGCCTGCTGCTTACTGCAGTTTCATGCAGGCCTCTGCTCCTTG
TCTTTCTTACCTGTAAATGGGTCTCAGATGCTCCGCCCTGCTTGGCCCCAGCTTGTCTGTCTCTGGGTCCCTGGG
CCAGCCAGGATACCTGATAATAAAAGATCATTGGGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5356

MVSKRIAQETFDAAVRENIEEFAMGPEEAVKEAVEQFESQGVDSLNI VKTAPKVSADGSQEPTHDILQMLSDLQE
SVASSRPQEV SAYLTRFC DQCKQDKACRFLAAQKGAYPIIFTAWKLATAGDQGLLLQSINALSVLTDGQPDLLDA
QGLQLLVATLTQNADEADLTCSGIRCVRHACLKHEQNRQDLVKAGVLP LLTGAI THHGHHTDVVREACWALRVMT
FDDDIRVPFGHAHNHAKMIVQENKGLKVLI EATKAFLDNPGILSEL CGTLSRLAIRNEFCQEVVDLGGLSILVSL
LADCNDHQMRDQSGVQELVKQVLSTLR AIAGNDDVKDAIVRAGGTESIVAAMTQH LTSPQVCEQSCAALCFLALR
KPDNSRIIVEGGGAVAALQAMKAHPQKAGVQKQACMLIRNLVAHGQAF SKPI LD LGAEALIMQARS AHRDCEDVA
KAALRDLGCHVELRELWTGQRGNLAP

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FIGURE 5357

GGCCGGTGGGTGAGTGCACCGCGTTCTCGCACGCGTCAATGGCGGTCCTCGGAGTACAGCTGGTGGTGACCCTGCT
CACTGCCACCCCTCATGCACAGGCTGGCGCCACACTGCTCCTTCGCGCGCTGGCTGCTCTGTAACGGCAGTTTGT
CCGATACAAGCACCCGTTCTGAGGAGGAGCTTCGGGGCCCTGGCGGGGAAGCCGAGGCCAGAGGCAGGAAAGAGCG
GTGGGCCAATGGCCTTAGTGAGGAGAAGCCACTGTCTGTGCCCCGAGATGCCCCGTTCCAGCTGGAGACCTGCCC
CCTCACGACCGTGGATGCCCTGGTCCTGCGCTTCTTCCTGGAGTACCACTGGTTTTGTGGACTTTGCTGTGTACTC
GGGCGGCGTGTACCTCTTCACAGAGGCCTACTACTACATGCTGGGACCAGCCAAGGAGACTAACATTGCTGTGTT
CTGGTGCCTGCTCACGGTGACCTTCTCCATCAAGATGTTCTTGACAGTGACACGGCTGTACTTCAGCGCCGAGGA
GGGGGGTGAGCGCTCTGTCTGCCTCACCTTTGCCTTCTTCTGCTGCTGGCCATGCTGGTGCAAGTGGTGCG
GGAGGAGACCCCTCGAGCTGGGCTGGAGCCTGGTCTGGCCAGCATGACCCAGAACTTAGAGCCACTTCTGAAGAA
GCAGGGCTGGGACTGGGCGCTTCTGTGGCCAAGCTGGCTATCCGCGTGGGACTGGCAGTGGTGGGCTCTGTGCT
GGGTGCCTTCTCACCTTCCCAGGCCTGCGGCTGGCCAGACCCACCGGGACGCACTGACCATGTGCGAGGACAG
ACCCATGCTGCAGTTCTTCTGACACACAGCTTCTGTCTCCCCCTGTTTCATCTGTGGCTCTGGACAAAGCCCAT
TGCACGGGACTTCTGACACAGCCGCGCTTTGGGGAGACGCGTTTCTCCCTGCTGTCCGATTCTGCCTTCGACTC
TGGGCGCCTCTGGTTGCTGGTGGTGCTGTGCCTGCTGCGGCTGGCGGTGACCCGGCCCCACCTGCAGGCCTACCT
GTGCCTGGCCAAGGCCCGGGTGGAGCAGCTGCGAAGGGAGGCTGGCCGCATCGAAGCCCGTGAAATCCAGCAGAG
GGTGGTCCGAGTCTACTGCTATGTGACCGTGGTGAGCTTGACGTACCTGACGCCGCTCATCTCACCCCTCAACTG
CACACTTCTGCTCAAGACGCTGGGAGGCTATTCTTGGGGCTGGGCCCAGCTCCTCTACTATCCCCCGACCCATC
CTCAGCCAGCGCTGCCCCATCGGCTCTGGGGAGGACGAAGTCCAGCAGACTGCAGCGCGGATTGCCGGGGCTCT
GGGTGGCCTGCTTACTCCCCCTCTTCTCCGTGGCGTCTTGGCCTACCTCATCTGGTGGACGGCTGCCTGCCAGCT
GCTCGCCAGCCTTTTCGGCCTTACTTCCACCAGCACTTGGCAGGCTCCTAGCTGCCTGCAGACCCCTCCTGGGGC
CCTGAGGTCTGTTCTTGGGGCAGCGGGACACTAGCCTGCCCCCTCTGTTTGCGCCCCCGTGTCCCCAGCTGCAAG
GTGGGGCCGACTCCCCGGCGTTCCCTTACCACAGTGCTGACCCGCGGCCCCCTTGGACGCCGAGTTTCTGC
CTCAGAACTGTCTCTCCTGGGCCAGCAGCATGAGGGTCCCGAGGCCATTGTCTCCGAAGCGTATGTGCCAGGT
TGAGTGGCAAGGGTGATGCTGGCTGCTCTTCTGAACAAATAAAGGAGCATGCCGATTTTT

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FIGURE 5358

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCTAGAGGGCCCGCCCTCCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTCTTTGAGAGACG
AGTTGGGGGAGTCTCCACGCATTACCCACTCGGGCCGCAAAAACTCCCTTCTTTAGCCCTCTGCCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTTGA
GAGAACTGGGCTTTTCGGCGCGGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCATGGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCCTCAGAACTTGGGGACCCCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTCCCTCTCCACAGGGCAGCTCCCTGAAGCACTCCACCACTCTCACCAACCGGCAGCGAGGGAACGAGGTGTC
AGCTCTGCCGGCCACCCTAGACTGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTG
GGCCTCCGCCTTTGGAGAGATTGAGACCGTTGCTTCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAA
AGAGCGAGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGA
CGTGGACATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACACGTGAAATG
CGTTGAGGCCTTGCTGGCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGC
CGTGGCCCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGT
GCCCCTGACCCTGAGTGAAGGCCGCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGG
GGAAACCCAGAAGTGAATCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATA
AACCTTCTGTGCAGAATGA

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FIGURE 5359

MELTQPAEDLIQTQQTPASELGDPEDPGEEAADGS DTVVLSLFPCTPEPVNPEPDASVSSPQGSSLKHSTTLTNR
QRGNEVSALPATLDCDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIV
GLLLERDVDINIYDWNNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQVIENHILK
LFQSNLVPADPE

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FIGURE 5360

CCGGACGCCGCACGGCTCCTGTTCCGGTGTGAGAGGGCCCGCCCTCCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGGAAGAACTCTCTCCCTTTTCTGAACCCCTTTTCTTTGAGAGACG
AGTTGGGGGAGTCCTCCACGCATTACCCACTCGGGCCGCAAAAACCTCCCTTCTTTAGCCCTCTGCCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTTGA
GAGAACTGGGCTTTCGGCGCGGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCAATGGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTCCTCTCCACAGGCAGGCAGCTCCCTGAAGCACTCCACCACTCTCACCAACCGGCAGCGAGGGAACGAGGT
GTCAGCTCTGCCGGCCACCCTAGACTCCCTGTCCATCCACAGCTCGCAGCACAGGGGGAGCTGGACCAGCTGAA
GGAGCATTGTGCGGAAAGGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTGGGCCTC
CGCCTTTGGAGAGATTGAGACCGTTCGCTTCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAAAGAGCG
AGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGA
CATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACACGTAATGCGTTGA
GGCCTTGCTGGCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGCCGTGGC
CCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGTGCCCGC
TGACCCTGAGTGAAGGCCCGCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGGGGAAAC
CCAGAACTGACTTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATAAACCTT
CTGTGCAGAATGA

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FIGURE 5361

MELTQPAEDLIQTQQTPASELGDPEDFGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQAGSSLKHSTTLTN
RQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADP
HILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYT
PMDLAVALGYRKVQQVIENHILKLFQSNLVPADPE

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FIGURE 5362

GGTCCGACATTCGTAGCAGCAGCTGCCCCCAAGCATCAGTGTACCCAGCCCAGTGACTGACGTGGAGCCCTGGG
CTTCGCGTAGAGTCACCTAGACGGGGCGAAAACGGGAAAAGGGGCCTTAAC TGGGGCACCTGGCTCCTTTGAGAG
CTCGGAGTTTCTGACTGGACTGCGCAACACCCCAGAGGCAAGGTGAACGCGAGGGCCTATAATGCAAGAACCAAG
GCGAGTCACGCACTGTCTGGGCAAAAGAGGAGTAAAGACCCCTCAGCTGCAGCCCGGCAGCGCATTCCCTACCCAG
GGTCCGCCGCCAGAGCTTTACCGCGCGGTGGATAGTTACACTACTGTCCGGGACTTCCTAGCCGTGCCGCGGAC
CATCTCAAGTGCTTCCGCCACACTCATCATGGCGGTGGCAGTAAGTCACTTCCGCCCGGGACCGGAAGTGTGGGA
TACTGCGAGTATGGCGGCGTCAAAGGTGAAGCAGGACATGCCTCCGCCGGGGGGCTATGGGCCCATCGACTACAA
ACGGAAC TTGCCGCGTCGAGGACTGTCTGGGCTACAGCATGCTGGCCATAGGGATTGGAACCCTGATCTACGGGCA
CTGGAGCATAATGAAGTGGAACCGTGAGCGCAGGCGCCTACAAATCGAGGACTTCGAGGCTCGCATCGCGCTGTT
GCCACTGTTACAGGCAGAAACCGACCGGAGGACCTTGCAGATGCTTCGGGAGAACCTGGAGGAGGAGGCCATCAT
CATGAAGGACGTGCCCCGACTGGAAGGTGGGGGAGTCTGTGTTCACACAACCCGCTGGGTGCCCCCCTTGATCGG
GGAGCTGTACGGGCTGCGCACCACAGAGGAGGCTCTCCATGCCAGCCACGGCTTCATGTGGTACACGTAGGCCCT
GTGCCCTCCGGCCACCTGGATCCCTGCCCTCCCCACTGGGACGGAATAAATGCTCTGCAGACCTGGAAAAAAA
AA

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FIGURE 5363

MQEPRRVTHCLGKRGVKTPQLQPGSAFLPRVRRQSFTARSDSYTTVRDFLAVPRTISSASATLIMAVAVSHFRPG
PEVWDTASMAASKVKQDMPPPGGYGPIDYKRNLPRRGLSGYSMLAIGIGTLIYGHWSIMKWNRRERRRLQIEDFEA
RIALLPLLQAETDRRTLQMLRENLEEEAIIMKDVPDWKVGESVFHTTRWVPLIGELYGLRTTEEALHASHGFMW
YT

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FIGURE 5364

GCCCCCTCCCCGCCCCGCTCCCGGCGCGGGTGGCCGAGGCGTAGCGCTGCGACCCCCGCACCCCTGCTAACATGG
CGCTGCGAGTGGTGCGGAGCGTGCGGGCTCTGCTCTGCACCCTGCGCGCGGTCCCGTCACCCGCCGCGCCCTGCC
CGCCGAGGCCCTGGCAGCTGGGGGTGGGCGCCGTCCGTACGCTGCGCACTGGACCCGCTCTGCTCTCGGTGCGTA
AATTCACAGAGAAACACGAATGGGTAAACAACAGAAAATGGCATTGGAACAGTGGGAATCAGCAATTTTGACACAGG
AAGCGTTGGGAGATGTTGTTTACTGTAGTCTGCCTGAAGTTGGGACAAAATTGAACAAACAAGATGAGTTTGGTG
CTTTGGAAAGTGTGAAAGCTGCTAGTGAACCTCTATTCTCCTTTATCAGGAGAAGTAACTGAAATTAATGAAGCTC
TTGCAGAAAATCCAGGACTCGTAAACAAATCTTGTGTGAAGATGGTTGGCTGATCAAGATGACACTGAGTAACC
CTTCAGAACTAGATGAACTTATGAGTGAAGAAGCATATGAGAAATACATAAAATCTATTGAGGAGTGAAAAATGGA
ACTCCTAAATAAACTAGTATGAAATAACGCAAGCCAGCAGAGTTGTCTTAAATTAGTGGTGGATAGAAGACTTAG
AATAGAACTTTTAAATATTACCGATGGGGGAAAAAACTACTGTTAACACTGCTAATGAAAGAAAAATGCCTTTAA
CTTTCTAATGATTATAGATAAATATAATATGCATCTTTTTCACAATATCCTATGATTTTTAGACTAGGCTCTAGT
GTTTCAAGATTCATGAAATTATCCATGGTAAAACTAGTTATAAAAAATTACATAATTCAAAGATAACATTGTTATT
CTTAAGCCTTATATAATATTGTAACCTGCATGTATCCATACCTGGATTGGGATGAAATACTTAATGATCTTTCC
ATTGGAAATAACTGGAAGTGAAGAGGTTTTGTGCTTGTACAGTGTGAGATGAGGAACACCCTATTTTAAATTTT
GCGATACACTGCATTTGCTGGTGCTATTTTTTATACAGTGAAGCAACAGCTTTGCAGCAAAATAATAAAATACTTC
TTTGTT

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FIGURE 5365

MALRVVRSVRALLCTLRAVPSPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTTEKHEWVTTENGIGTVGISNFA
QEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVNKSCCEDGWLIKMTLS
NPSELDELMSEEAYEKYIKSIEE

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FIGURE 5366

TACTGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTAATGTGGTGGATGCTGGCTCGGGAAGTTCTG
CGCATGCGTGGCACCATTTCCCGTGAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAA
GAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCT
CCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTGCAGGTGCCCTCTGTGCCT
ATTCAGCAATTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGAAGACTGGTCTGCAGCTCCCACTGCTCAG
GCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGCATAGGCTCTTAAGCAGCATGGAAAA
ATGGTTGATGAAAATAAACATCAGTTTCT

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FIGURE 5367

GCTTTTCCATGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTAAAGGGAACTTT
CACAAATGTCGGGAGCCCTTGATGTCTGCAAATTAAGGAGGAGGATGTCCTTAAGTTCCTTGACAGCAGGAACCCA
CTTAGGTGGCACC AATCTTGA CTTCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCAT
AAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCCCTGCTGATGT
CAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAAT
TGCTGGCCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCTGGGAGCCACGGCTTCTTGTGGT
TACTGACCCCAAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAA
CACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGAT
GTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCC
TGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAA
GGAGGAATTTCAAGGTGAATGGACTGCTCCCGCTCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAGACTGGTC
TGAAGGTGTGCAGGTGCCCTCTGTGCCTATTCAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGA
AGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCT
TGCATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAAATAACATCAGTTTCT

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FIGURE 5368

MSGALDVLQIKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFWEPRLLVVTDPRADHQPLTEASYVNLPTIALCNT
DSPLCYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPREEIEKEEQAAAEKAVTKE
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQFAMEDWSAAPTAAQATEWVGATTDWS

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FIGURE 5369

CTTTCCGGTGATGACAACCTTCCCACAAGAGGACATGCCTCTCACAAAGGATCTCCTTCATCCCTCTCCAGAAGA
GAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCCTACTTCATGGATGTGAAATGCCCAGGATG
CTATAAAGTCACCACGGTCTTTAGTCATGCACAAATGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCTCTGCCA
GCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCCCTTCAGGAGGAAGCAGCACTAAAAGCACTCTGAATC
AAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGAT

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FIGURE 5370

GTCGTCACGCGTCCCGCGCCTCCTCGCGCCTGCGCCGTGGTTGGAAGGTCGTCCCTGTGACCGGCTTGGCGGTTG
GAGCGGCTGTGCGCATGTTGTGCGGTAGCATCCCCGCTCAGGCCCCGTTTCGCGCCCGTCTGTGCGGCCACGTCCCGCG
GGGTGGCGGGCGCGCTGCGGCCCTTGGTGCAAGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGA
AGCGGCCCTTCTCAGCCGGGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCTTTGGTCGCCTCCGTGGGCCTCA
ATGTCCTTGCTTCTGTTTGTATTCCACACAGACATCAAGGTGCCTGACTTCTCTGAATACCGCCGCCCTTGAAG
TTTTAGATAGTACGAAGTCTTCAAGAGAAAGCAGCGAGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAA
CTACTGTGGGTGTGCGCATATGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATG
TGTGGGCCCTGGCGAAAATCGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAG
GCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAGGAAGCTGCAGTTGAATTATCACAGTTGA
GGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTTGCACTCATCTTG
GCTGTGTACCCATTGCAAAATGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTACACTATGATGCAT
CTGGCAGGATCAGATTGGGTCCCTGCTCCTCTCAACCTTGAAGTCCCCACGTATGAGTTCACCAAGTACGATATGG
TGATTGTTGGTTAAGAGACTTGGAAGTCAAGTCATAGGCTTCTTTCAGTCTTTATGTACCTCAGGAGACTTATTT
GAGAGGAAGCCTTCTGTACTTGAAGTTGATTTGAAATATGTAAGAATTGATGATGATTTGCAAACATTAATGTG
AAATAAATTGAATTTAATGTTGAATACTTTCAGGCATTCACTTAATAAAGACACTGTTAAGCACTGTTATGCTCA
GTCATACACGCGAAAGGTACAATGTCTTTTAGCTAATTCTAATTAAAAATTACAGACTGGTGTACAAGATACTTG
TG

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FIGURE 5371

ACTGGAGTAACTACTGTGGGTGTCGCATATGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCT
TCTGCTGATGTGTTGGCCCTGGCGAGAGGCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAG
GAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTT
ATCCTGATAGGTGTTTGCACCTCATCTTGGCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGGTTATTACTGC
CCTTGCCATGGGTCACACTATGATGCATCTGGCAGGATCAGATTGGGTCCTGCTCCTCTCAACCTTGAAGTCCCC
ACGTATGAGTTCACCAAGTGACGATATGGTGATTGTTGGTTAAGAGACTTGGACTCAAGTCATAGGCTTCTTTCAG
TCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACTTGAAGTTGATTTGAAATATGTAAGAAT
TGATGATGTATTTGCAAACATTAATGTGAAATAAATTG

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FIGURE 5372

GGGCCTGCGGGAGCGCGGCCCTTGCGGTTCCAGGACTCTTCTCCGGGCGCCTCGTCTCCTTACGCCACCCGCAAC
CCAAGCCAGGGCCCCGGTGACAGCGGCGGGGTGGGCCAGGACCGGGGAGGGGGTGCCACAGCAGCGACCCCCGGCT
CCCCCTAAGGCCGGGCGCAGCTCGGAGCCAGGAGCTGGCCCGGCGCGTGGCTTCCCGGAAGGCCCGGCGCAGCCG
GAAGGTGGGACGGAGGGCGGGGCCAGCGCCGGGGCCGCCACCAAGGCCCTGCGCGACCCCTCCGCGGGGGCTGGGGAG
CTGGGCGGGGAGCCCGGGGCTGCCAGGCCCGGGCTGCAGCCGCGTCTGATCGCCGAGCGCGCCGCGTAGACCTC
CGCTCCCCCAGCCACCGTCTGGATGCTGTCTGTCTATACAGGCGCTTGGAGCTGCTGAGCTTTCTGAAAAGGGGG
ACCCTTCTTAAACTCTAGGAAGTAGAGTGGCATTGTGATGGAAATACTCTTATGCTCATTGAAACTGTCCCTC
TGAACCTTCTCCCTCGAAGGCCCGCCACGATGACTATCATGGTGGAGGACATCATGAAGCTGCTGTGCTCCCTTTC
TGGGGAGAGGAAGATGAAGGCGGCTGTCAAGCACTCTGGGAAGGGTGCCCTGGTCACAGGGGCCATGGCCTTCGT
CGGGGGTTTGGTGGGCGGGCCACCGGGACTCGCCGTGGGGGGGCTGTGCGGGGGCTGTTAGGTGCTGGATGAC
AAGTGGACAGTTTAAAGCCGGTTCCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGGCTCTTTAACGA
AGCCGCAGCCATCATCAGGCACCTGGAGTGGACGGACGCGCTGCAGCTGACCGCGCTGGTCATGGGCAGCGAGGC
CCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAAGTACGTACCAAGGAGCTGCGGGCCGAGATCCAGTATGATGA
CTAGGCCGCACCTCCGGGGAGGTGGGGGGCCCCCTTAAATGACTCTGTGATTCTGAAGAGGTGGCTTGGGAGTTG
GGAGAAGCCCAGCGGATGCCCCCTGGGGAATCTCCACATCATCAGTGTATTACTAGTAATGTCCCGCTGGAGAGG
CCACCGCTGTGCAGTGTCTGTTCCAGAAATTACTGATGAAGCAGCATGTGTTGGTGGCATGTGCACTGGCCTGC
CATGACAGCCCTCTGACTGGCCCCCAGTGAAGAGTAAAGGCTGCCGCGCAGGCTTCGAGGCGTCTGCTGA
GTCCTCTCACCCGATGGGTCTGGGGAAGTGATCACGCTCAGCCGACGGTCTGACCACACTTCATCTCCCCCG
GGGCTTCTCATCTTGGGAGATGACTCCTCTTCAGAGCACCTGCTGCAGGACTGGATCCACCCCCCTGCAGGTC
CTGGGGTCTCAGGGCCTTGGAGCAGCCCATGCTGGAATCATGTTTACCTCCTAGTGCAACCGTCCCCTACCCAGG
GACTGTGCAATGGCCCCACGGAGGGGACGGGCGGCCCTGCTGAGTGAAGCCACAAATACCGAGTGGACTTGACCCC
GGCCCCCACTAGGCTGCACACCTAGACTCGCCCTGCCAGGGCCTCGCTCTTCCCATCTGAAAAGTCTGGTAGTT
CTTGAGGTTTACTTCTCAAATGAAATATTTTTAGTAAAAAGTACAGGTATATCTCGGAGATATTGTGGGTTCAGT
TCCAGACCACCTCGGTAAAGCCAACATCACAATAAAGCAAGGAAGCGCATTGTTTTAGTTTCCAGTGCATCTAA
GTCATGTTTACTGCATATTGCAGTCCACTAAATGTGCAATAGCATTATGTCTAACAAATGTACAAACCTTAATTT
AAAAATATTTACTGTTCAAATGCTGACACAGAAACGCAAGTGAGCACATGCTGTTGAAAATGGTGCCAAATA
GACTTGCCTGATGCCAGGCTGCTACAAACCTTCAATTTAAAAAACAACAGTATTCACAAAGCATAGTAGAAT
GAGGTATGCCTGTATTGCTCTTTCTGAAGTGGTGTGATATAAACCATCTCTAAGAAATGTTTCTACCTAAAGAT
TTCCCCAGTACAGTCAGCTCTCCGTAAGTGTGGTCTCCACATTTAGATCCAACCAGCCTTGATAGGAAATATTT
GAAAAAAGAAATTGCATTGGTACTGAACACGTACAGACCTTTTTTCTTGCCATTATCCCTAAACAATATGGTG
TAGCATATTTACATAGCATTATATTGATTTGGTATTATAAGAAATCTAGAGATGATTTAAATTATACAGGAAG
GTGTGCGTAGGTTACGTGCAACGCTATGCCATTGCCATCAGGGACTTGAGCATCCTCAGATGTGCGGTGTCTGA
GGGTTGAGGTTGCAGTCTGGAACCCATCCCCATGGATACTGAGGCATAGCTGTACTGTGTGTTTTCACTTTGC
TTTCAGAACTACGACTTGAATGTGATCGATTACAATAAATGTTTTCT

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FIGURE 5373

MTIMVEDIMKLLCSLSGERKMKA AVKHSGK GALVTGAMAFVGG LVGGPPGLAVGGAVGGLLGAWMTSGQFKPVPQ
ILMELPPAEQQRLFNEAAAIIRHLEWTD AVQLTALVMGSEALQQQLLAMLVNYVTKELRAEIQYDD

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FIGURE 5374

AGCAGCCGGCGCGGCCGCCAGCGCGGTGTAGGGGGCAGGCGCGGATCCCGCCACCGCCGCGCGCTCGGCCCCGCCG
ACTCCCGGCGCGGCCGCCGCCACTGCCGTGCGCGCCGCCGCCTGCCGGGACTGGAGCGCGCCGTCCGCCGCGGAC
AAGACCCTGGCCTCAGGCCGGAGCAGCCCCATCATGCCGAGGGAGCGCAGGGAGCGGGATGCGAAGGAGCGGGAC
ACCATGAAGGAGGACGGCGGCGCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTG
CAGGATCCAGATGAAGAAATGGCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAAT
AATGCAGTCTGTGCAGACCCCTGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTACCCAAAC
TCAACGTGCAAGCCTCGGATTATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAG
GAAGTCTGGAAAATCATGTTAAACAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCCTCTT
CTGCAGCCAAAATGCGAGCAATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAG
ACCTTTTACTTGGCACAAGATTTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAACTCTTTTACAG
CTTATTGGGATTTTCATCTTTATTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAAGTTTGGC
TATGTGACAGATGGAGCTTGTTCAGGAGATGAAATCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGG
CGTTTAAAGTCCCCTGACTATTGTGTCCTGGCTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAA
GTGCTACTGCCGAGTATCCCCAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCCTGGATGTT
GACTGCCTTGAATTTCTTATGGTATACTTGCTGCTTCGGCCTTGATCATTCTCGTCATCTGAATTGATGCAA
AAGGTTTCAGGGTATCAGTGGTGCGACATAGAGAACTGTGTCAAGTGGATGGTTCCATTGGCCATGGTTATAAGG
GAGACGGGGAGCTCAAACTGAAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGA
GACAGCTTGGATTTGCTGGACAAAGCCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTC
CCCAGTGGGCTCCTCACCCGCCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGGAAATGGCGTGAACACCCCAT
CCTTCTCCACCAAAGACAGTTGCGCGCCTGCTCCACGTTCTCTTCTGTCTGTTGCAGCGGAGGCGTGCGTTTGCT
TTTACAGATATCTGAATGGAAGAGTGTTCCTTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAAA
GTGTTTTTTTATTGAATGCTTATAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCACT
GCGTGCTCCCGATGCTGCTATGGAAGGTGCTACTTGACCTAAGGGACTCCCACAACAACAAAAGCTTGAAGCTGT
GGAGGGCCACGGTGGCGTGGCTCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGTGGTTGCGG
GCAAGCGTTGTGCAGAGCCCATAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGGTACAA
TGCCTTTGATGAAGTGTGTTTGTAAAGTGTGCTATATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAGAC
AAAAAAA

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FIGURE 5375

MPRERRERDAKERDTMKEDGGAEFSARSRKRRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNVAVCADPCSLI
PTPDKEDDDRVPNSTCKPRIIAPSRGSPLPVLSWANREEVWKIMLNKEKTYLRDQHFLEQHPLLQPKMRAILLD
WLMEVCEVYKLRHRETFYLAQDFFDRYMATQENVVKTLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDE
ILTMELMIMKALKWRLSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILA
ASALYHFSSSELMQKVSGYQWCDIENCVKWMVPFAMVIRETGSSKLKHFRGVADEDAHNIQTHRDSLDLLDKARA
KKAMLSEQNRASPLPSGLLTPPQSGKKQSSGPEMA

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FIGURE 5376

GTGCTCACCCGGCCCGGTGCCACCCGGGTCCACAGGGATGCGAAGGAGCGGGACACC**ATGA**AGGAGGACGGCGGC
GCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTTGTCAGGATCCAGATGAAGAAATG
GCCAAAATCGACAGGACGGCGAGGGACCACTGTGGGAGCCAGCCTTGGGACAATAATGCAGTCTGTGCAGACCCC
TGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTACCCAAACTCAACGTGCAAGCCTCGGATT
ATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAGGAAGTCTGGAAAATCATGTTA
AACAAGGAAAAGACATACTTAAGGGATCAGCACTTCTTGTAGCAACACCCTCTTCTGCAGCCAAAAATGCGAGCA
ATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAGACCTTTTACTTGGCACAAGAT
TTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAAACTCTTTTACAGCTTATTGGGATTTTCATCTTTA
TTTATTGCAGCCAAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAGTTTGCCTATGTGACAGATGGAGCTTGT
TCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGGCGTTTAAGTCCCCTGACTATT
GTGTCCTGGCTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAAGTGCTACTGCCCGAGTATCCC
CAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCTTGGATGTTGACTGCCTTGAATTTCTTTAT
GGTATACTTGCTGCTTCGGCCTTGATCATTCTCGTCATCTGAATTGATGCAAAAGGTTTCAGGGTATCAGTGG
TGCGACATAGAGAACTGTGTCAAGTGGATGGTTCCATTTGCCATGGTTATAAGGGAGACGGGGAGCTCAAACTG
AAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGAGACAGCTTGGATTTGCTGGAC
AAAGCCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTCCCCAGTGGGCTCCTCACCCCG
CCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGAAATGGCG**TGAC**CACCCCATCCTTCTCCACCAAAGACAGTT
GCGCGCCTGCTCCACGTTCTCTTCTGTCTGTTGCAGCGGAGGCGTGCGTTTGCTTTTACAGATATCTGAATGGAA
GAGTGTCTTCTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAAAGTGTTTTTTATTGAATGCTTA
TAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGTGCGTGCTCCCGATGCTGCTAT
GGAAGGTGCTACTTGACCTAAGGGACTCCCAACAACAAAAGCTTGAAGCTGTGGAGGGCCACGGTGGCGTGCC
TCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGAGCAGGTGGTTGCGGGCAAGCGTTGTGCAGAGCCCA
TAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAATGCCTTTGATGAAGTGTTTTG
TAAGTGCTGCTATATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAGACAAAAAAA

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FIGURE 5377

MKEDGGAEFSAERSRKRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCSLIPTDKEDDDRVPNS
TCKPRIIAPSRGSPLEVLWANREEVWKIMLNKEKTYLRDQHFLEQHPLLQPKMRAILLDWLMEVCEVYKLHRET
FYLAQDFFDRYMATQENVVKTLLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDEILTMELMIMKALKWR
LSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILAASALYHFSSSELMQK
VSGYQWCDIENCVKWMVPFAMVIRETGSSSKLKHFRGVADEDAHNIQTHRDSLDLLDKARAKKAMLSEQNRASPLP
SGLLTPPQSGKKQSSGPEMA

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FIGURE 5378

TATAAAAGCTGGGCCGGCGCGGGCCGGGCCATTTCGCGACCCGGAGGTGCGCGGGCGCGGGCGAGCAGGGTCTCCG
GGTGGGCGGGCGGACGCCCCGCGCAGGCTGGAGGCCGCCGAGGCTCGCCATGCCGGGAGAACTCTAACTCCCC
ATGGAGTCGGCCGACTTCTACGAGGCGGAGCCGCGGGCCCCGATGAGCAGCCACCTGCAGAGCCCCCGCACGCG
CCCAGCAGCGCCGCTTTCGGCTTTCGCCGGGGCGCGGGCCCCGCGCAGCCTCCCGCCCCACCTGCCGCCCCGGAG
CCGCTGGGCGGCATCTGCGAGCAGAGACGTCCATCGACATCAGCGCCTACATCGACCCGGCCGCTTCAACGAC
GAGTTCCTGGCCGACCTGTTCCAGCACAGCCGGCAGCAGGAGAAGGCCAAGGCGGCCGTGGGCCCCACGGGCGGC
GGCGGGCGGGCGGACTTTGACTACCCGGGCGCGCCCGCGGGCCCCGGCGCGCCGTCATGCCCGGGGGAGCGCAC
GGGCCCCCGCCGGCTACGGCTGCGCGGCCGCGCGGTACCTGGACGGCAGGCTGGAGCCCCGTACGAGCGCGTC
GGGGCGCGGGCGCTGCGGCCGCTGGTGATCAAGCAGGAGCCCCGCGAGGAGGATGAAGCCAAGCAGCTGGCGCTG
GCCGGCCTCTTCCCTTACCAGCCGCCGCCGCCGCCGCCCTCGCACCCGCAACCCGCAACCCGCCCGCCGCGCAC
CTGGCCGCCCGCACCTGCAGTTCAGATCGCGCACTGCGGCCAGACCACCATGCACCTGCAGCCCGGTACCCCC
ACGCCCGCCGCCACGCCCGTGCCAGCCCGCACCCCGCGCCCGCGCTCGGTGCCGCCGGCCTGCCGGGCCCTGGC
AGCGCGCTCAAGGGGCTGGGCGCGCGCACCCCGACCTCCGCGCGAGTGGCGGCAGCGGCGCGGGCAAGGCCAAG
AAGTCGGTGGACAAGAACAGCAACGAGTACCGGTGCGGCGCGAGCGCAACAACATCGCGGTGCGCAAGAGCCGC
GACAAGGCCAAGCAGCGCAACGTGGAGACGACAGAGAAGGTGCTGGAGCTGACCAGTGACAATGACCGCCTGCGC
AAGCGGGTGAACAGCTGAGCCGCAACTGGACACGCTGCGGGGCATCTTCCGCCAGCTGCCAGAGAGCTCCTTG
GTCAAGGCCATGGGCAACTGCGCGTGAGGCGCGCGCTGTGGGACCGCCTGGGCCAGCCTCCGGCGGGGACCCA
GGGAGTGGTTTGGGGTCGCCGATCTCGAGGCTTGCCCGAGCCGTGCGAGCCAGGACTAGGAGATTCCGGTGCT
CCTGAAAGCCTGGCCTGCTCCGCGTGTCCCTCCCTTCCCTCTGCGCCGACTTGGTGCGTCTAAGATGAGGGGGC
CAGGCGGTGGCTTCTCCCTGCGAGGAGGGGAGAATTCTTGGGGCTGAGCTGGGAGCCCCGGCAACTCTAGTATTTA
GGATAACCTTGTGCCTTGAAATGCAACTCACCGCTCCAATGCCCTACTGAGTAGGGGGAGCAATCGTGCTTG
TCATTTTATTTGGAGGTTTCTGCTCCTTCCCGAGGCTACAGCAGACCCCATGAGAGAAGGAGGGGAGCAGGC
CCGTGGCAGGAGGAGGGCTCAGGGAGCTGAGATCCCGACAAGCCCGCCAGCCCCAGCCGCTCCTCCACGCTGTC
CTTAGAAAGGGGTGAAACATAGGGACTTGGGGCTTGGAACCTAAGGTTGTTCCTTAGTTCTACATGAAGGTGG
AGGGTCTCTAGTTCCACGCTCTCCACCTCCCTCCGCACACACCCACCCAGCCTGCTATAGGCTGGGCTTCC
CCTTGGGGCGGAACCTACTGCGATGGGGGTACCAGGTGACAGTGGGAGCCCCACCCGAGTCACACCAGAAA
GCTAGGTGCTGGGTGAGCTCTGAGGATGTATACCCCTGGTGGGAGAGGGAGACCTAGAGATCTGGCTGTGGGGCG
GGCATGGGGGGTGAAGGGCCACTGGGACCCTCAGCCTTGTTTGTACTGTATGCCTTCAGCATTGCCTAGGAACAC
GAAGCAGATCAGTCCATCCAGAGGGACCGGAGTTATGACAAGCTTCCAAATATTTTGTCTTATCAGCCGATA
TCAACACTTGTATCTGGCCTCTGTGCCCCAGCAGTGCTTGTGCAATGTGAATGTGCGCGTCTCTGCTAAACCAC
CATTTTATTTGGTTTTTGTGTTTTGTTTTGTTTTGCTCGGATACTTGCCAAAATGAGACTCTCCGTCGGCAGCTGG
GGGAAGGGTCTGAGACTCCCTTTCCTTTTGGTTTTGGGATTACTTTTGATCCTGGGGGACCAATGAGGTGAGGGG
GGTCTCTCTTGGCCTCAGCTTTCCTCCAGCCCTCCGGCCTGGGCTGCCACAAGGCTTGTCCCCCAGAGGCCCT
GGCTCCTGGTCGGGAAGGAGGTGGCCTCCCGCCAACGCATCACTGGGGCTGGGAGCAGGGAAGG

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FIGURE 5379

TTGAGGGTCAATTCCAACTCCTTCACTTTGGTTGTGTTAGTAGACAGGGCAACAAAGTGCTTCGCCACTGCAGA
AGGATCCTTGGCCGCCTGGAGAAACCACCTCCTTCGCCGTCTCTGCATTTCGTGATGGTCTCCTGGGTTAGTAAAGGT
CTTGGAGGCAATGATGAACAGGGAGGACTCGGGGTTTCAGCTGGGCCAGGGTTTTGGCAATGTGAGTTCCATCAAT
GTTGGAGACATACCAGACGCGGGGACCTCCTGAAGAGTATGGCTTAAGGGCTTCAGTCACCATGAGGGGTCCCAG
GTCGGAGCCGCCAATGCCAATGTTGATGACGTCCGTGATGGTCTTGCCCTGTGTACCCCTTCCAGTCACCGCTCCG
GACACGCTGGCAGAAAGACTTCATCTTGTCCAGAACCTTGTGACCTCTGGCATCACATCCTTGCCGTCTACCAG
GATGGGTGTGTTTGACCGGTTCCGCAGAGCCACGTGCAGCACGGCTCGACCCTCGGTGATGTTGATCTTCTCACC
ATTGAACATCCGCTCCCGGGCGGCCTCCACGCCCCTGGACTTGGCCAAGTCCACCAGCATCCGCATCACGTCTC
CGTCACCAGGTTCTTGGAGTAATCCACCAGGATATGCCCATGGTTGGTGTGTTGAGGGTCAAGCTGAAGTGGTTGAA
GCGGTCCTTGTGTCATCGAAGAGGCGGCGCAGGTTTCAGCTCGGAGCGGTGCTCGCGGTACCATGCTGCAGCTT
CTGGAAGTGGGGTCCCGGGTGAGAGCGGCCATGGCGGGACTAGAAGGTACACTGAGTGAGACGCGAGCCGAGGA
GGAAGGAGCGCCGGCAGCGCGCAGCA

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FIGURE 5380

ATGACAAAGAAAAGAAAGAACAACAATCATGCCAAAAGGGCCGCGGCCACATGCAGCCTATTTGCTGCATGAAC
TGTGCCCCGATGCATGCCCAAGTACAAAGCCGTTAAGAACTCCTGTATGTGAAACTACATTACTGTGTGAGTTGT
GCAATTCACAGCAAAGTAGTCAGGAATCGATCTCATGAAGCCCGCAAGGACCCAACACCCCCCTCCCCGATTTAGA
CCTGCGGCTAGTATCCTGACACCAAAATCCAACCACTCGAAGACACAGACAAAATGTTCCATGCAAGATATTGGC
AAAGTGAATGAAATTACATATAAAGAATACTATAAGCTGATTAAGGAGAATTTACACCAGAAACGCAAGCCACCA
CCACCCCCAGTGTCCTCAAGGCTGAAGGTGCAAGCTTGCCCTGGCCCTGGCCCTGGCATAGAAAGTGCACGATCT
GGTCATGTCATGCAGGTGAGGATACCTGTGTGCCAGGTCTCCAGCTCCCTGGTGACAAGACTGACAGACAAAAC
AATGGAACCTGGTACCTAGAAGAGGATGAGAAGGATCCCCGTGAACCCTAG

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FIGURE 5381

MTKKRKNNNHAKKGRGHMQPICCMNCARCMPKYKAVKKLLYVKLHYCVSCAIHSKVVRNRSHEARKDPTPPPRFR
PAASILTPKSNHSTQTKCSMQDIGKVNEITYKEYYKLIKENLHQKRKPPPPVSPRLKVQACPGFPGPGIESARS
GHVMQVRIPVCQVSSSLVTRLTDKTNGTWYLEEDEKDPREP

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FIGURE 5382

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCCGCTCGCGCTCCCCTGGCCACACCCTCCGCCT
GGACGCAGCAGCCACCGCCGCGTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCCAGCTCCGACATGTCGCC
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCAC
GTCCAGTTCTTCAGCAGACTCAACTATCATGGACATTTCAGGTCCCGACACGAGCCCCAGATGCAGTCTACACAGA
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCCAAGACCCAGACCCAGACCCAGCAACT
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAGCAGCTCATCCCCTGATGA
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCCAGACCCCTCAAGCCATCTGG
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCTCCGGAAACGGGGGCTGTTGGTCGCAGCTGTGCT
GTTTCATCACAGGCATCATCATCCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGGTTATGCCGGAATCGTTGCAG
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCCTGCC
CAGCCTCCTGCATCCCCCTCGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC
GGTCCGAGTCTCCTACCTCCCCCAACCCTGCCCCGCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGC

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[illegible]

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FIGURE 5384

GAGGCCCGGGAGCGGCAGTGGAAACCGACTCCCAGAACTCCGGACGTGTGCGGCGCAGTGAGTCGCAGCCATGTTTCTGGTTAACTTCGTTCTTGAAGGGCGGCGGGCGGGCGGGGGAGGCGGGGGCCTGGGTGGGGGCCTGGGAAATGTGCTTGGAGGCCTGATCAGCGGGGCCGGGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGTGGTGGAGGCGGC GTGGCGGTGGAAACGGCCATGCGCATCCTAGGCGGAGTCATCAGCGCCATCAGCGAGGCGGGCTGCGCAGTACAAC CCGGAGCCCCCGCCCCACGCACACATTACTCCAACATTGAGGCCAACGAGAGTGAGGAGGTCCGGCAGTTCCGG AGACTCTTTGCCCAGCTGGCTGGAGATGACATGGAGGTGACGCGCCACAGAACTCATGAACATTCTCAATAAGGTT GTGACACGACACCCCTGATCTGAAGACTGATGGTTTTTGGCATTGACACATGTGCGCAGCATGGTGGCCGTGATGGAT AGCGACACCACAGGCAAGCTGGGCTTTGAGGAATTCAAGTACTTGTGGAACAACATCAAAAGGTGGCAGGCCATA TACAAACAGTTCGACACTGACCGATCAGGGACCATTGTCAGTAGTGAACTCCCAGGTGCCTTTGAGGCAGCAGGG TTCCACCTGAATGAGCATCTCTATAACATGATCATCCGACGCTACTCAGATGAAAGTGGGAACATGGATTTTGAC AACTTCATCAGCTGCTTGGTCAGGCTGGACGCCATGTTCCGTGCCTTCAAATCTCTTGACAAAGATGGCACTGGA CAAATCCAGGTGAACATCCAGGAGGTAAGGACCCCCATATTGGGGTATGGGTGCCTGGGAGGACCCCAACCCCTCA GCCCTTCATACCAGCTCTGAGCTGCAGTCCCCTTCCTCCTATTTTGCCAGCCGTCCCTGGGTGAGGGCAAAGGGG CTGGTGCTCTTGGGGTTCCCTGTCTCACTCTCCACCCTCCTCTCCCCAGTGGCTGCAGCTGACTATGTATTCCT GAACTGGAGCCCCAGACCCGCCCCCTCACTGCCTTGCTATAGGAGTCACCTGGAGCCTCGGTCTCTCCCAGGGCC GATCCTGTCTGCAGTCACATCTTTGTGGGGCCTGCTGACCCACAAGCTTTTGTCTCTCAGTACTTGTTACCCAG CTTCTCAACATCCAGGGCCCAATTTGCCCTGCCTGGAGTTCCCCCTGGCTCTAGGACACTCTAACAAGCTCTGTC CACGGGTCTCCCCATTCCCACCAGGCCCTGCACACCCCACTCCGTAACTCTCCCCTGTACCTGTGCCAAGCCT AGCACTTGTGATGCCTCCATGCCCCGAGGGCCCTCTCTCAGTTCTGGGAGGATGACTCCAGTCCCTGCACGCCCT GGCACACCCTTCACGGTTGCTACCCAGGCGGCCAAGCTCCAGACCGTGCCAGACCCAGGTGCCCCAGTGCCCTTTG TCTATATTCTGCTCCCAGCCTGCCAGGCCAGGAGGAAATAAACATGCCCCAGTTGCTGATCTCT

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FIGURE 5385

CTCTGACAAAAGCATCTCAGTGATTGACTTTTACTCGGGCGAGTGCATTGCCAAGATGTTTGGCCATTTCAGAAAT
TATTACCAGCATGAAGTTCACCTATGACTGTCATCACTTGATCACAGTATCTGGAGACAGCTGCGTGTTTCATCTG
GCACCTGGGCCCCGGAGATCACCAACTGCATGAAGCAGCACCTTGCTGGAGATTGACCACCGGCAGCAGCAGCAGCA
CACAAATGACAAGAAGCGGAGTGGCCACCCAGGCAGGATACGTATGTGTCCACACCTAGTGAGATTCACTCCCT
GAGCCCTGGAGAGCAAACAGAGGATGATCTGGAGGAAGAGTGTGAGCCAGAAGAGATGCTGAAGACACCATCCAA
AGATAGCTTGGATCCAGATCCTCGTTGCCTGCTAACCACCGCAAGCTGCCACTGTGGGCAAAGCGGCTGCTAGG
GGACGATGATGTGGCAGATGGCTTGGCCTTCCACGCCAAGCGCAGCTACCAGCCCCACGGCCGCTGGGCAGAGCG
GGCCGGCCAAGAGCCCCCTCAAGACCATCCTGGATGCCCAGGACCTGGATTGCTACTTTACCCCCATGAAGCCCCGA
GAGTCTGGAGAACTCCATTCTGGATTCACTGGAGCCACAGAGCCTGGCCAGCCTGCTGAGTGAGTCAGAGAGTCC
CCAGGAAGCTGGCCGCGGGCACCCCTCCTTCTGCCCCAGCAGAAGGAATCATCTGAGGCCAGTGAGCTCATCCT
CTACTCTCTGGAGGCAGAAGTGACAGTCACAGGGACAGACAGCCAGTATTGCAGGAAGGAGGTGGAGGCCGGGCC
TGGAGACCAGCAGGGCGACTCCTACCTCAGGGTGTCTCCGACAGCCCCAAAGGACCAGAGCCCCGCCTGAGGACTC
GGGGGAGTCAGAGGCCGACCTGGAGTGCAGCTTCGACGCCATCCACTCCCCAGCTCCGCCTCCTGACCCTGCCCC
TCGGTTTGCCACGTCGCTGCCCCATTTCCCAGGATGCGCAGGTCCCCACAGAAGATGAGCTGTCCCTGCCCCAGGG
ACCCAGCGTCCCCAGCAGCTCCCTACCCAGACTCCGGAGCAGGAGAAGTTCTCCGCCACCACTTTGAGACACT
GACTGAGTCCCCCTGCAGAGCTCTGGGAGACGTGGAGGCCCTCTGAAGCTGAAGACCACTTCTTCAACCCACGCCT
GAGTATCTCCACGCAGTTCCTCTCAAGCCTCCAGAAGGCATCCAGGTTACCCATACCTTCCCTCCCCGGGCAAC
CCAGTGCCTTGTGAAGTCTCCAGAGGTCAAGCTCATGGACCGAGGCGGAAGCCAGCCAGCCAGAGCAGGTACTGGCTA
CGCCTCCCCAGACAGGACCCACGTCTCGCTGCAGGGAAGGCTGAAGAGACCCCTGGAGGCCTGGCGCCCCACCAC
TCCCTGCCTTACGAGCCTGGCGTCTGTGTCCCTGCTTCTCCGTGCTGCCACAGACAGGAATCTCCCAACGCC
CACATCTGCACCCACCCAGGCCTGGCTCAGGGTGTCCATGCCCCCTCCACCTGTTCTTACATGGAGGCCACTGC
CAGCTCCCGTGCCAGGATATCACGCAGCATCTCCCTCGGTGACAGTGAGGGCCCTATCGTGGCCACACTGGCCCA
GCCCCCTCCGTAGGCCATCGTCCGTTGGGGAGCTGGCCTCCTTGGGCCAGGAGCTTCAGGCCATCACACCCGCGAC
AACACCCAGTTTGGACAGTGAGGGCCAAGAGCCTGCCCTGCGTTCCTGGGGCAACCACGAGGCCCGGGCCAACCT
GAGACTGACCCTGTCAAGTGCCTGTGATGGGCTCCTGCAGCCCCCGTGGATACCCAGCCTGGCGTACCCGTCCC
TGCAGTGAGCTTCCCAGCCCCTAGCCCTGTGGAAGAGAGCGCCCTGAGGCTCCACGGCTCTGCCTTTCGCCCCAAG
TCTCCCAGCTCCTGAGTCCCCTGGCCTTCTGCCCACCCAGTAACCCCAAGCTTCCAGAGGCCCGGCCTGGCAT
CCCTGGCGGCACTGCCTCCCTCCTGGAGCCACCTCCGGTGCACTTGGTCTGTTACAGGGCAGCCCTGCCCGCTG
GAGTGAGCCCTGGGTGCCGTTGAAGCCCTGCCCCCATCTCCCTTGAGCTGAGCAGGGTGGGGAACATCTTGCA
CAGGCTGCAGACCACCTTCCAAGAAGCCCTCGACCTTTACCGTGTGTTGGTCTCCAGTGGCCAGGTGGACACCGG
GCAGCAGCAGGCACGGAAGTGAAGCTGGTCTCCACCTTCTGTGGATCCACAGCCAGCTGGAGGCTGAATGCCTGGT
GGGGACTAGTGTGGCCCCAGCCAGGCTCTGCCAGCCAGGACCCCGTCCCCACCGACGCTGTACCCCTGGC
CAGCCAGACCTGCAGGCCCTGCTGGAACACTACTCGGAGCTGCTGGTGCAGGCCGTGCGGAGGAAGGCACGGGG
GCACTGAAGGGCGCAGCCCCCTCCACCGCAGCCCTGCTGCTTCTGAGGACTTAGGTATTTTAAGCGAATAAACTGAC
AGCTTTG

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FIGURE 5386

MKPESLENSILDSLEPQSLASLLSESESPQEAGRGHPSFLPQQKESSEASELILYSLEAEVTVTGTD SQYCRKEV
EAGPGDQQGDSYLRVSSDSPKDQSPPEDSGESEADLECSFAAIHSPAPPPDPAPRFATSLPHFPGCAGPTEDELS
LPEGPSVPSSSLPQTPEQEKFLRHHFETLTESPCRALGDVEASEAEDHFFNPRLSISTQFLSSLQKASRFTHTFP
PRATQCLVKSPEVKLMDRGGSQPRAGTGYASPDRTHVLAAGKAEETLEAWRPPPPCLTSLASCVPASSVLPDRN
LPTPTSAPTPGLAQQGVHAPSTCSYMEATASSRARI SRSISLGDSEGP IVATLAQPLRRPSSVGELASLGQELQAI
TTATTPSLDSEGQEPALRSWGNHEARANLRLTLSSACDGLLQPPVDTQPGVTVP AVSFPA P SPVEESALRLHGSA
FRPSLPAPESPGLPAHPSPNPQLPEARPGIPGGTASLLEPTSGALGLLQGSPARWSEPWVPVEALPPSPLELSRVG
NILHRLQTTFQEALDLYRVLVSSGQVDTGQQQARTELVSTFLWIHSQLEAECLVGTSVAPAQALPSPGPPSPPTL
YPLASPD LQALLEHYSELLVQAVRRKARGH

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FIGURE 5387

AAGAAGACTACAATCTCCGGAGGGAAACCTGGGGCGTCTCGCGCAAACGTCCATAACTGAAAGTAGCTAAGGCAC
CCCAGCCGGAGGAAGTGAGCTCTCCTGGGGCGTGGTTGTTTCGTGATCCTTGCACTCTGTTACTTAGGGTCAAGGCT
TGGGTCTTGCCCCGAGACCCTTGGGACGACCCGGCCCCAGCGCAGCTATGAACCTGGAGCGAGTGTC CAATGAG
GAGAAATTGAACCTGTGCCGGAAGTACTACCTGGGGGGGTTTGCTTTCCTGCCTTTTCTCTGGTTGGTCAACATC
TTCTGGTTCTTCCGAGAGGCCTTCCTTGTCCTCAGCCTACACAGAACAGAGCCAAATCAAAGGCTATGTCTGGCGC
TCAGCTGTGGGCTTCCTCTTCTGGGTGATAGTGCTCACCTCCTGGATCACCATCTTCCAGATCTACCGGCCCCGC
TGGGGTGCCCTTGGGGACTACCTCTCCTTCACCATACCCCTGGGCACCCCTGACAACTTCTGCACATACTGGGG
CCCTGCTTATTCTCCAGGACAGGCTCCTTAAAGCAGAGGAGCCTGTCTGGGAGCCCCCTTCTCAAACCTCCTAAG
ACTTGTTTTTCATGTCCACGTTCTCTGCTGACATCCCCAATAAAGGACCCTAACTTTCCAAAAAAAAAAAAA

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FIGURE 5388

MAKARNQLDAVLQCLLEKSHMDRERLDEEAGKTPSDTHNKDCSIAATGKRPSARFPHQRRKKREMDDGLAEGGP
QRSNTYVIKLFDRSVDLAQFSENTPLYPICRAWMRNSPSVRERECSPSSPLPPLPEDEEGSEVTNSKSRDVYKLP
PPTPPGPPGDACRSRIPSPLQPEMQGTPDDEPSEPEPSPSTLIYRNMQRWKRIQRWKEASHRNQLRYSESMKIL
REMYERQ

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FIGURE 5389

GGCACGAGGGGGGAGAGTAGACAGCAGAAACCAGCGGCGGGCTAAGCAGAGACTGTAGTAGCGGCGACAGCGAC
GACGGCAGCGATGGCTGGGGCGGGGCCAGCCCCGGGACTCCCGGGTGACAGGAGGACCCGTGGTCCCGGGTCCTGG
CGCTGGCATCCCGGGCAAAAGCGGCGAGGAACGCTTGAAGGAAATGGAGGCGGAGATGGCCCTGTTTGTAGCAGGA
AGTTCTGGGGGCTCCAGTACCTGGAATCCCAACTGCTGTGCCTGCGGTGCCCACTGTCCCCACGGTCCCCACAGT
AGAAGCGATGCAGGTCCCAGCGGCTCCTGTGATCCGCCCCAATTATCGCGACCAACACATACCAGCAGGTCCAGCA
GACTCTGGAGGCCCGAGCAGCTGCTGCAGCCACAGTAGTTCCCTCCCATGGTGGGTGGCCCTCCTTTTGTAGGCCC
TGTTGGCTTTGGCCCTGGTGTATCGGAGTCACCTGGACAGCCAGAGGCTCGAGAAGCCATGTTCTGCGGGCGGGC
AGCTGTGGCCCCCAGAGGGCCCCCTATCCTGCGTCCAGCCTTCGTCCCCCAGTGCTACAGAGAGCAGATTCCGC
TCTCTCCTCTGCAGCAGCGGCCCCCGCCCTATGGCCCTACGGCCCCCTCACAGGCCCTCGTGGGCCCCCCTCT
GCCTGGGCCCCCTGGACCACCCATGATGCTGCCACCAATGGCTCGGGCTCCAGGGCCCCCGCTGGGCTCCATGGC
TGCACTGAGGCCCCCTCTGGAAGAGCCAGCAGCACCCCGAGAGCTGGGCCTAGGCCTGGGGTTGGGCCTGAAAGA
GAAGGAAGAGGCACTGGTGGCGGCGGCGCTGGGCTGGAGGAGGCTAGCGCGGCTGTGGCCGTGGGGGCAGGAGG
TGCCCCAGCTGGCCCTGCAGTCATTGGGCCCAGCCTGCCGCTGGCCCTGGCCATGCCATTGCCCGAGCCTGAGCC
CCTGCCCCCTCCCGTTGGAGGTCGTCCGCGGCTCCTGCCCCCGCTGCGCATTCTGAACTCCTGTCCCTGCGTCC
TCGGCCCCGGCCCCCTCGGCCAGAGCCACCCCCAGGCCTCATGGCTCTTGAGGTCCCAGAGCCCCCTGGGTGAAGA
CAAGAAGAAGGGGAAGCCAGAGAAATTGAAACGGTGCATTCGCACAGCGGCAGGGAGCAGCTGGGAGGACCCAG
CCTGCTGGAGTGGGATGCAGATGACTTCCGGATCTTCTGTGGGGATCTGGGCAATGAGGTGAACGATGACATCTT
GGCACGCGCTTCAGCCGCTTCCCATCCTTCCTTAAGGCCAAGGTGATCCGTGACAAGCGCACAGGCAAGACCAA
GGGCTACGGCTTCGTCAGCTTCAAGGACCCAGCGACTACGTGCGCGCCATGCGTGAGATGAATGGGAAGTATGT
GGGCTCGCGCCCCATCAAGCTTCGCAAGAGCATGTGGAAGGACCGGAATCTGGACGTGGTCCGCAAGAAGCAGAA
GGAAGAAGAAGCTGGGCCTGAGATAGGGTCTGTGGCCAGGCACCCGCTCCACCTGGCCGGGCGCTGGCTCCT
CCCTCAGTTCTCTTTGAAAACCCCGAGCTGTCCACCCATCCCCTGCCCCAAAACAGTTTCAATAAATTTACGT
TCATTTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5390

MAGAGPAPGLPGAGGPVVP GPGAGIPGKS GEERLKEMEAEMALFEQEVLGAPVPGIPTAVPAVPTVPTVPTVEAM
QVPAAPVIRPI IATNTYQQVQQTLEARAAAAATVVPPMVGGPPFVGPVGFPGDRSHLDSPEAREAMFLRRAAVA
PQRAPILRPAFVPHVLQRADSALSSAAAAGPRPMALRPPHQALVGPPPLPGPPGPPMMLPPMARAPGPPPLGSMAALR
PPLEPAAPRELGLGLGLGLKEKEEAVVAAAAGLEEASAAVAVGAGGAPAGPAVIGPSLPLALAMPLPEPEPLPL
PLEVVRGLLPPLRIPELLSLRPRPRPPRPEPPPGLMALEVPEPLGEDKKKGKPEKLRKRCIRTAAGSSWEDPSLLE
WDADDFRIFCGDLGNEVNDDILARAFSRFP SFLKAKVIRDKRTGKTKGYGFVSFKDP SDYVRAMREMNGKYVGSR
PIKLRKSMWKDRNLDVVRKKQKEKKKLGLR

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CGGTGTCGCCGCCGCCGCCGCTGTCATGGAGCTAGCGCAGGAAGCGCGGGAAGCTGGGTTGCTGGGCGGTGCAAGAG
ATGGGGGTGCCCCGTGGCGGCCCGGGCCCCGGAATCGACGCTGCGCAGGCTGTGTCTGGGCCAGGGGGCTGACATC
TGGGCCTACATCTTGCAGCATGTGCACAGTCAGAGGACTGTCAAGAAGATCCGGGGAAACCTACTCTGGTATGGC
CACCAGGACAGTCCACAGGTCCGTGCGAAGTTAGAGCTGGAAGCTGCTGTGACCCGCTGCGGGCAGAAATCCAG
GAACTCGACCAGAGCCTGGAGCTGATGGAGCGAGACACTGAGGCTCAGGACACGGCCATGGAGCAGGCACGTCAG
CACACTCAAGACACCCAGCGTCGAGCTCTCCTCCTCCGGGCCAAGCTGGGGCCATGCGAAGACAGCAGCATACG
CTCCGAGATCCCATGCGAGCGGCTGCAGAATCAACTGAGGCGCTGCGAGACATGGAGAGGAAAGCCAAAGTAGAT
GTGACCTTTGGATCCCTCACGTCGGCAGCTCTGGGCCTGGAGCCGTGGTCTGCGTGATGTCCGAACAGCCTGC
ACCCTCCGGGCCCAGTTCTTGCAGAACCTCCTGCTTCCCCAGGCCAAGAGGGGCAGCCTCCCAACCCCTCATGAT
GACCACTTTGGCACTTCGTACCAGCAGTGGCTGAGCTCAGTGGAGACGCTGCTGACAAACCACCCCCCAGGCCAC
GTCCTGGCTGCCTTGGAGCACCTGGCTGCAGAGCGGGAGGCAGAGATTGGTCCCTGTGCAGTGGGGATGGGCTT
GGCGACACAGAGATATCCAGACCCCAGGCCCCGGACCAGTCAGACTCCAGCCAGACCTGCCGTCCATGGTTCAT
CTCATCCAGGAGGGCTGGCGGACTGTGGGTGTGCTGGTCTCCACGCGGAGCACCTCCTGAAGGAGCGGCAAGTC
TTGACCCAGCGCCTCCAGGGCCTGGTGGAGGAGGTGGAGAGACGCTCCTGGGATCCAGTGAGAGGCAGGTGCTG
ATACTGGGGCTTGGCGCTGTTGCCTGTGGACGGAGCTCAAGGCCCTGCACGATCAGAGCCAGGAGCTGCAGGAT
GCAGCTGGGCATCGGCAGCTCCTGCTGAGGGAGCTACAGGCCAAACAGCAGCGGATCCTGCACTGGCGCCAGCTG
GTGGAGGAGACCCAGGAACAGGTCCGCCCTGCTCATCAAGGGAAGCTCGGCCAGCAAGACCCGCTGTGCCGGAGC
CCGGGGGAGGTGCTAGCTCTGGTCCAGCGAAAGGTGGTCCCTACATTTGAGGCAGTGGCACCCACAGAGCCGGGAG
CTGCTGCGCTGTCTGGAGGAGGAAGTCCGGCATTGCCCCACATTCTGTTGGGCACGCTGCTGCGGCACAGGCCG
GGAGAGTTGAAGCCCCTGCCACGGTCCCTCCCATCCATCCACCAGTGCACCCCGCTCCCCAAGGGGTCCAGC
TTCATAGCGCTGAGCCACAAGCTGGGGCTGCCTCCAGGGAAGGCCCTCGGAGCTGCTCCTGCCGGCGGTGCCCT
CTTCGCCAGGACCTTCTGCTCCTGCAGGACCAGCGGAGCCTCTGGTGTGGGATCTACTCCACATGAAGACCAGC
CTGCCGCCAGGCCTTCCCACCCAGGAGCTGCTGCAGATCCAGGCATCCCAGGAAAAACAGCAGAAAAGAGAACCTG
GGGCAGGCTCTGAAGAGGCTGGAGAAGCTACTGAAACAGGCAGTGGAGCGAATCCCTGAGCTGCAGGGGATCGTG
GGGGACTGGTGGGAGCAGCCAGGCCAGGCCGCGCCTCTCTGAGGAGCTCTGCCAGGGCCTGTCCCTGCCCCAGTGG
CGGCTGCGCTGGGTTGAGGCCAGGGGGGCCCTGCAGAAGCTGTGCAGCTGAAGAGAGGGGTTCAAACGGAAGCCGA
GAACTTGACACTGTTACCCCCAACACCTCACCTCCCCCAGGACATTTGGAAGAAAGCAGCGCCAGGATTCTCGG
CAGTCGTCCCCACCCGCACCTGCAGTCCCCCTCATGTGCTGTTCTGCTGCCCACTCAGCTCCTGGACCTGTCTC
TTCATCCCGCTAAAGCACCCCTAAAACCCCTTCATCACTTTTATTCTCAGCAAAAAGTAATTGAGCACCTCCTC
TAGGCGCTGGGGAGTCCACACTGAACAAAAGAAACAGAAAACCTGTCTTCCAGCAGTTGAGTTCTAGGGCAGGG
AGACAGAGTTTACAAGATAAGGAAAATATATATGTAGTATGCTGCAAGTTAACTGCTGTGTGGGAAATCCAGCAG
GGGGTGGGATGTGTGATTTGAATTGAGGGCCACACTGCCCAGGTCGTGCTCCGTCAAGGGGTGAGCAGGAGCAAC
AGGGGTGGCTGAGTAAGGGCTTGCAGCTGGAGGCAACAGCACATGCAAAGGCCCTGAGCCAGGATGTGCTGCAAT
AAGGGCCACTGAGGGGGACAGTGTAGGTGGGGGTGAGGAATGTATTAAAGATGAGATTGCCCTTCTAGTTTGTA
TAGTTTCTTTTTTTACATGTAAATCAGCCATTTGGAATTTATCCTAGCACATGGATCCAATTTTGTCTTATTTTA
CATATATCCTAGTAGCACTTACTGAAATTCCCAGTCAGAGTGGCAGTTGCCTCTGAGGGGAAGGTGGGTGGCAGGG
ATCAACTGAGGAGGAGACACAGAAATGTCTAGCTGATGGGAATGTGCTGTGTCAAGAGCAGCGGCGGTGACGCA
GGTGTAGAGATTTGTGAGAGTCATGTAGTTGTAGTCTTAAGGCCTGTGCATTTCACTGCGTGGGTTACTCAATT
TATAAAGCAAAGCCCTTACACTTTTGAGATGCCACCTTTTTATGCACTAAATTTCCATGTTTAAATTGGGTTATAT
CTGGCTTCTCTCCAGACCTGCTTTGTATTTAACTCTCCATGTGTCACTTTCTTTTGTGATGCACTTCTATCTGT
TGACACATTTGTATATCTGTTCTTGTGTTTTCTTTTTGTTTTTTTTTTTTTTTGTAGATGCAGTCTCATTTCTGT
TGCCCCAAGTTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTTTCTTCTCCAGGTTCAAGCTTATCTCATG
CCTCAGCTTCCCCAGTAGCTAGGATTACAGGTACGCACCACCACGCCAGCTCATTTTTGTATCTTTAGTAGGGA
CGGGGTTTTATCATGTTGGCCAGACTGGTCTCGAACTCCTGACCTCAAGTGATCTGCCTGCCTCGGCCTCCCCAA
GTGCTGGGATTACAGGCATGAGCCACCGCGCCTGACCACATTGCCATATCTGAAATGGCTGGATTCTCTTAGGTG
CTTTTCTTTTTCTTTCTTTCTTTCTTTTTTTTGTAGACAGAATCTGGCTGTTTCCAGGCTGAAGTGAGTGGCATG
AACTCAGCTCACTGCAACCTCTGCCTCCTGGATTCAAACAATTCTCATGTCTCAGCCTCCTGAATAGCTGGGATT
ACAGGCCACCCACCACCATATCTGGCTAATATTTGTATTTTTTTGTAGAGTCGGAGCTTTACCATGTTGGTCAGGCT

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FIGURE 5391B

GCTCTCCAACCTCCTGGCCTCAAGTGATTCTATCGCCTCTGCCTCCCAAATCTTCACCTGCTGGGATTAGTTTCCC
CTGTCTCAGTAAATTTTTTTTCCCAAATAAGTGAACATTAGATTTAATTTGGCTGGCCCCAGAAGAAAAACATG
CACAGATGGTAGTTTTTACTGGTGTTGCAGTAAGTTTTCAAATTTGGAAGTTTGGCAGCTTTATGATCTTGAACCT
TGCTGTCCATCTCTCACACAACCTCCTCTCTTGGCCTCCAGAGTCCCTTTACTCTCCCAGCTTTCCTCCTGCCCCCT
GGCTGCTGTTTCCCAGCCTTTCACATTGGCTTTCCCATGTAGTCCTTAGTGTGTCTGCTCCTCCTCTCTCTCCT
CATCACAGTTCCCAGCCCCCACCTTCAACTGAACCTCAACAAAATCTTCAACTTCATACAGTAGTCACATTGTTAG
TAATAACACTGGCATTTTTTATTTTGATAAAATAGACCGTTTTAAATTTTTGAGATTCTACCTTATATTTTTTGAAT
TATATACTAAAGCAAATAAGTAGTGATGTAATGTCATTGGGGACCAAGATTTTTAGTGTAATGAAAAAAGATAA
CAAATATAAACTCAAGTAAACACCCTGTAGTCTTTCACATGAATTGGAAATATCAGAATAAAGTCATGATTTTTCT
TCTTTCT

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FIGURE 5392

MELAQEARELGCWAVEEMGVFVAARAPESTLRRRLCLGQGADIWAYILOHVHSQRTVKKIRGNLLWYGHQDSPQVR
RKLELEAAVTRLRAEIQELDQSLERDTEAQDTAMEQARQHTQDTQRRALLLRAQAGAMRRQHTLRDPMQRL
QNQLRRLQDMERKAKVDVTFGSLTSAALGLEPVVLRDVRTACTLRAQFLQNLLLPQAKRGS LPTPHDDHFGTSYQ
QWLSSVETLLTNHPPGHVLAALAEHLAAERAEIRSLCSGDGLGDTEISRPAQPDQSDSSQTLPSMVHLIQEGWRT
VGVLVSRSTLLKERQVLTQRLQGLVEEVERRVLGSSERQVLIILGLRRCCLWTELKALHDQSQELQDAAGHRQLL
LRELQAKQQRILHWRQVVEETQEQRLLIKGNSASKTRLCRSPGEVLALVQRKVVP TFEAVAPQSRELLRCLEEE
VRHLPHILLGTLRLRHPGELKPLPTVLP SIHQ LHPASPRGSSFIALSHKLGLPPGKASELLLPAAASLRQDLLLL
QDQRLWCWDLHMKTS LPPGLPTQELLQIQASQEKQKENLGQALKRLEKLLKQALERIPELQGIVGDWWEQPG
QAALSEELCQGLSLPQWRLRWVQAQ GALQKLCS

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FIGURE 5393

GGCACGAGGGCCCTGGCCGTGGCGAAAGAGCCGGCGGAGCCGGAGACCCGCTCCCGGAGACGCCGCCCTCGCGATC
CCCGCGCGGGCGGGACCGGGCGGCCGGCATCATGACCCTGTTTCACTTCGGGAAGTCTTCGCTCTTGCCCTACTT
CCCCTACTTTCATCACCTACAAGTGCAGCGGCCCTGTCCGAGTACAACGCCTTCTGGAAATGCGTCCAGGCTGGAGT
CACCTACCTCTTTGTCCAACCTCTGCAAGATGCTGTTCTTGGCCACTTTCTTTCCACCTGGGAAGGCGGCATCTA
TGACTTCATTGGGGAGTTTCATGAAGGCCAGCGTGGATGTGGCAGACCTGATAGGTCTAAACCTTGTCATGTCCCG
GAATGCCCGCAAGGGAGAGTACAAGATCATGGTTGCTGCCCTGGGCTGGGCCACTGCTGAGCTTATTATGTCCCG
CTGCATTCCCCTATGGGTTCGGAGCCCCGGGGCATTGAGTTTGACTGGAAGTACATCCAGATGAGCATAGACTCCAA
CATCAGTCTGGTCCATTACATCGTCGCGTCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTACCACACCTT
CCGGCCAGCTGTCTCCTGCTGATGTTTCTCAGTGTCTACAAGGCCTTTGTTATGGAGACCTTCGTCCACCTCTG
CTCGCTGGGCAGTTGGGCAGCTCTACTGGCCCCGAGCAGTGGTAACGGGGCTGCTGGCCCTCAGCACTTTGGCCCT
GTATGTCGCCGTTGTCAATGTGCACTCCTTAGGCTTGGTGTCTCAGACATTGATGTACCTTTTCCCTGCCTCGCTC
CAGGTTTTAGTGAAGTAAACAGTATTTGGAAAGTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5394

MTLFHFGNCFALAYFPYFITYKCSGLSEYNAFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGEFMKAS
VDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSNISLVHYIVAS
AQVWMITRYDLYHTFRPAVLLLMFLSVYKAFVMETFVHLCSLGSWAALLARAVVTGLLALSTLALYVAVVNVHS

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FIGURE 5395

ATGGCCGTTGCCAGCTTGCCTTCCGTGCTAGTCGCATCTCAGCAGGATCCCCTCCCAGATTTGGTCCTGGTGCTT
GATGGTCGAGGCCATCTCCTGGGCCGCCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTG
GTCGTACGCTGTGAAGGCATCAACATTTCTGGCAATTTCTACAGAAACAAGTGCCCCTACCACTTCCGGGCCCCC
AGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAAGCGAGGCCAGGCCGCTCTGGACCGT
CTCAAGGTGTTTGACGGCATCCACCGCCCTACGACAAGGTGAGCTATGCCAAACCCACAGGCAGCGGCCTTAC
CTGTGGCGTCCATGA

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FIGURE 5396A

AAAAAATAGCCAGGCGTGGTGGCACATGCCTATAATCCCAGCTACTCAGGTGGCTGAGGCAGGAGAATCGCTTGA
ACCCAGGAGGCAGAGGCTGCAGTGAGCTGAGGTCACACCACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCTG
TCTCAAAAAACAAACAAACAAGCAAAAAATCAAAAAACATTGTTTTAGATCTTATTTTCTATTGACCTAAGAGTTA
TTAATATAGACTTTTGAATTTTCAGGTAGATTTTACTTGIGTTTTCTTTTAATTTTATTATTAATTTCCAGTTTT
AGTAGAAAAATGCTATATAATTTCAACCTTTTTTTTTTGCTAACTCCTAGTTTTGTGTCTAGATTTTCAGCTTTTT
AATAGAGACCACCTTATCATAATTGAAAACCTCATCCTGTTTTCTCTCTCATAACAACCTCATTTCAGCTTGTAGAT
TTTCTCTGGCTGTTCTGTTGCTGGCTTGCCATCCTCTGGCCTACATGTAACGTGACTTCTGTTAGCAAGTCCT
TCACATTCAGATGACTGCAACAGTTGAACATGCACATTACTTTTTTCCACATTTCTGAGTTACAGGCATATCCTG
TCTTTTTGTGCCATGAATTTTATAAGAACTTCAGTAAGATATAGACGTGTTTTCTGTCCGAAAAATCACTGATA
CACATTTCTTAAAAAACAGGAATGGCCTTGACTATGAGGGAATGGAAGGAGAAAACTGAGCAATGGGAGGAA
AGAACAAAACCAAGTTGAACATTTGTCAAATGAATGAGTAATAGAATAAGTTGAAGGGAAGATTGAGTAGGTAGAA
CTCCTCAATACCTTTGCTATGGTGTAGAGACAAAGAAAAAGTTACCCATAGCTATGTGAAGGGGCAATGGGCAG
TGCACTGCATAGGTAAAGGCATAAGCAGTGGCAGATGCATAGGAATATACAGCCACCTATTTCCATTCTTGTATT
TAGCTGGGCTGCCCTGGATGAATAAAGAGAATATTTAATCACTGTAGTAAGGCATGAGAGACTAGAGGCAGAGAG
ATACATTTAGAACAAGTATGTAGCTATGGGAATTAATGAGTAAACCTATTATATGCTTAGCATTATTACTTA
ATGTAGCGTTAACTAGGGATTGTTTCTGTCTTGAGGAGGTTTATAGGTAAGAATAGGCAGTATAACAATTGGAG
AAGTTAATAAATATATAATTTTAAATTGAGAGCTATTATAAAGGCAAGGAATAGAGAATAGCAACATGGATTTA
GGTACTATCAATAGGGTCAACCTTAAAGGAAATGACTTTTAACTAAGATCTCAAGATGAAAGGAGCCAGCCATG
CAAAGAGCCCAATCAGGAGATTGTGGGAGATAGAACAGACTGTGAAGAGTCCTAAGAGATGGAAGTAAGTTAGG
ACATGTGAGGTCTGCAAGGAGGCCTCTCCAGGGAGCAGTAAAGGGGACACTGGTTTGAGATCATATGATGTAGGT
AAGCAGAGGCCTTCTTAACCACAGTGAGCTTGACTGGATTCTGAGAATGAAGAAAGATGAAAAAATTTAAGTAT
AGATTCTCGACCTCTCATCTTCATCAGAATTATCATGTAGAGAATATTAAATATCCTTCCAGGACTGCAGAGTCT
GATCCAGGTGGTTTGGGTGGTGTCTAAACCTCAGTGTTAGTAACAAGCTATGTGGTGATTCTGATCCACACCTCA
ATATGAGAACCCTGACTTAAATGTTTACTTCATCACCATCTTGCTATTTTGTATGAACTCTCATTTTTCTCTG
ATGTTCCCTTTGGCTTTTTTTTTTCTTTCCAAATTGTATAACAATATTTTAGAGTTTTGGTTAAGGATTACTTTTG
TTGTCTTTTATTTCTACATTAGAAATGTTGCTTCTTTTAGTAAAGAAAAACAGCATGTGTTGCTTTCTTGTGTTT
ATTTTAGATTTGGAGACCAAGTATGAGACCAAGAAGTTATCTTTAGAAAATGACATTTATGAAATAAATTTATCC
CAGTGGAAAGATAAATGGAAAGAAATGAAAACCATGGCCTTAAGGGTCTCATTTTAAAAAATGATTGGGAATCCACA
GGAAAAATTGAAGGACAGGAGACCTCAAGAAGGATACCTTCAGTAGTGTGAAAATGCCATCTGAAAAGGTGTC
TCTTACCAGAAACGCACATCTGTTACTCCACATCAGAGACTTCATTTTGTGATAAACCCCTATGAATGTAAGGAA
TGTGGGAAGGCGTTAGAGTGCGCCAACAGCTTACTTTTCATCACAGAATTCATACTGGTGAAAACCGTATGAA
TGTAAGGAATGTGGGATGGCCTTCAGACAGACTGCACACCTTACTCGACATCAGAGACTTCATTCTGGTGAAAA
CTCTATGAATGTAAGGAATGTGGGGAAGCTTTTCATATGTGGTGAGATCTTAGAGTACATCAGAAAATGCATATT
GGTGAGAAGCCCTATGAATGTAAGAATGTGGGAAGGCTTTTAGGGTACGAGGACAACCTTACTCTGCATCAGAGG
ATTCATACTGGTGAGAAAACCCCTATGTGTGTAAAGAGTGTGGAAAAGCCTTTAGACAGTACGCACACCTGACTCGG
CATCAGAAGCTTAATAGTGCTGACAGGCTCTATGAATGCAAAGAATGTGGGAAGGCCTTTTTGTGTGGCTCTGGT
CTTAGAGTACATCACAACTTCATACTGGTGAGAAAACCCCTATGAATGTAAGGAATGCGGGAAGGCCTTTAGAGTG
CGACAACAACCTAACCTCCATCAGAGAATTCATACTGGTGAGAAAACCCCTATGAATGTAAGGAATGTGGAAAGACC
TTTAGCCGTGGTTATCATCTTATTCTCCATCAGAGAATTCATACTGGTGAAAAACCTTACGAATGTAAGGAATGC
TGGAAAGCCTTTAGTCGCTACTCACAACCTTATTTACATCAGAGTATTCATATTGGTGTAAAGCCCTATGACTGT
AAGGAATGCGGGAAGGCCTTCAGACTACTTTCACACTCACACAGCATCAGAGTATTCATATTGGTGAGAAACCT
TATAAATGTAAGGAATGTGGCAAGGCCTTTAGATTGCGCCAAAAAATCTACTTACATCAGAGCATTTCATACTGGC
GAAAAACCCCTTTAGTGTAAGGAATGTAGGAAGGCCTTTAGACTTAATTCATCCCTTATTCAACATCTGAGAATT
CATTCTGGTGAGAAACCCCTATGAATGTAAGGAATGTAAGAAGGCCTTTAGGCAACATTACACCTTACTCATCAT
CTGAAAATTCATAATGTAATAATCTAAGAAAGTCTTTTCAACTTCTGTGTTATAGAACATTCTATGAATGTAGTA
ATTAATCTATTTTGTCTCCATACATGCAACTGCGTTGGCATTAGAGGTTTTATACCATTAAAAGAGTGTGACAATG
TATTGTAGTCCATCATCACTCAAACCTGAAACTTCAGCATATTTGTTCTAAAAACTAATCCTGTTATAAGAATGA
AAAAGACATTTACCGTCATCCCTATCCCATCACTTTGTGTCTACTGGACAAGACGCTTAACTGCTCTGTGCTAT

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FIGURE 5396B

AATTTTTTAATTTATGACATGGTCATATAAGAGTGCAGCAGTTTGACACACTTTCAATCAAGAGGTGGAATCTAC
ATCCCTCTGTTGTATACAGGAATCTACATCCCTCTGTGACTGCTTCGCCCAGTAGAATATGGTAGACGTACTGCT
GTGCTGGTTTTCTTGACTCAGACTTTACTGGTAGGGTTACTTCATCTCATGAAATGACAGAAGTGTCTTGTTACAA
AGTCTGGCTACTTTGCTGAAGAGACCACATGAAGAGGCCCTGAAACTACGTAGAGAGGGAGAGGCACCTGCTGAA
CCCTGTCTTCTTGACATCCACCAAGATACCAGACATTTGAGTGAAATTTTGATCCACCAGACCAGCCACCAGCT
AAATGCCAGTGAGCGACTTGGTAACCTGAACTGATGCCATGTAGAATGGAAGAATTGACCAGCTGAGCCCCCTGGC
CCAAATTTCTGACCCACAAAAACATGAGATATAATAAAATGGTTGTTGTTTTAAGCCACTAAACTTTCTTTTATT
ATCATACTAAATATTTATTTTACATAATTCATACTAAAGGCTGTGGGCATAATGAGTATAGAAATGCCTTCCAC
CAACATTTAATCTTCATTGAACCTTGAGATATCTTATTCTCGTTAAAAATATTGAAAGTAAGGAATTCCTTTCCAGT
TTGTTTCATTAAAAACAGATACCCTAGACCAGGTGAGGTGGCCCATGCCGTGTAATCCAGCACTTTGGGAGGCCA
AGTAAGGACGATTGCTTGAGGCCAGAAGTTCGAGACCAGCCTGGGCAACATGGTGAGACCCTGTCTCTACCAAAA
AACTTTAAAAATTAGCTGGGCATAATGGTGATGCCGTGTAGTCTAGCTACTCGAGGCTGAGGTGGGAGGATCAT
TTGAACCCAAGAGTTGAGGCTTCAGTGAGCTGTGATTGTACCACTGCACTCCAGCTTGAGTGACTGCAAGACCCCT
GTCTCAAAAAAAAAAAAAAACTACAATCAGTATTCTCTGGCCCCAGTCAATATTAAAAATTGACAAAAGGATAACA
TGAAACTTTGGAAATTAAGTCACCTGTATTATGAAGCCCCATTAAATTTTTTAACTACTTCATTGTTTTTTAA
AAATGCTAAATTGTCAATTTAGCATTTTGAGGCAATCCCTCAAATTGGCTCCTGTGTCTTTTATCATGACCAC
TCCAACCTTTGAGCTTTTTTTTTTCTGAACCAAATGCATTGATTAGTTATGGAGCATACTAGAGCATTATTAAC
AAATAAAGGAAAAGAATGGAATATTTACCTTGCTATCCTTTACAACTATATTTCAAGACAACCAAAAGTTGGT
GAAGGAAAGTTGTTGATTAGAGAATTCCTAAGTGGTTAAAGGTCAAAGGAGGCCAGGCGCGGTGGCTCAAGCCTG
TAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCGTGAGGTCAGGAGATCAAGACCATCCTGGCTAACACGG
TGAAACCCCATCTCTACTAAAAATACAAAAATTCGCCGGGCGTGGTGGCAGGCGCCTGTAGTCCCAGCTACTCA
GGAGGCTGAGGCAGGAGAATGGCTTGAACCCGGGAGGCGGAGCTTGCAAGTGAAGCCGAGATCGCGCCACTGCACTC
CAGCCTGGGTGACAGACCAGACTCTGTCTCAAACAAAAACAAAAACAAAAACAAAGATCAATGAATG
ATAGAATTTGAAAACCTACGCTCTTTAATTTTACAAATCATGGATTTTCGTGGTGATAGCAATGGATGCGAAGAC
CATTAGGTGAAAAATGGATAGGAAGCTTATAATGCATGGAGCAGAATGACAGGACACTAATCTATATTAACATCT
CTAAATGAGATCAGCCAGATGAACCTGATGTGATGAAATGGATACACACAGTGGACACCTGTGAAGTTTTCTTGG
CTCCCCAAAACCTGAGAAGTACAAGTTAGTCTCCAAACCTAATTACCAGTTTACAGGAAACATGGGGAATAAAG
AACAAATTAACAACACAAAGAAGCAAACAACCAATGCACAATTTGGGAAATCTGCAGAAGTAATGGCCTAGTT
TTTTAACCAATACATGTC

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FIGURE 5397

MLLLLVKENS MCLLS CFILDL ETKYETKKLSLENDIYEINLSQWKIMERIENHGLKGLILKNDWESTGKIEGQER
PQEGYFSSVKMPSEKVSSYQKRTSVTPHQRLHFVDKPYECKECKGKA FRVRQQLTFHHRIHTGEKPYECKECKGMAF
RQTAHLTRHQRLHSGEKLYECKECKGEAFICGADLRVHQMHIGEKPYECKECKGKA FRVRGQLTLHQRIHTGEKPY
VCKECKGA FRQY AHLTRHQKLNSADRLYECKECKGAFLCGSGLRVHHLHTGEKPYECKECKGKA FRVRQQLTLHQ
RIHTGEKPYECKECKGKTFSRGYHLILHHRIHTGEKPYECKECKWKA FSRYSQLISHQSIHIGVKPYDCKECKGA FR
LLSQLTQHQS IHIGEKPYKCKECKGA FR LRQKLT LHQSIHTGEKPFECKECKRKA FR LNSSLIQHLRIHSGEKPYE
CKECKKA FR QHSHLTHHLKIHN VKI

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FIGURE 5398

TGGATGGTGAACCCCTGATTCTGAAGTCGGTGTCTGCTGTGTTTCATGGCAGGATTCGGTTAGGAGGAACAGCACAG
CATGCTGGGCTCTGGATTTAAAGCTGAGCACTTAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTGAACTATT
GGAGGAAAAAAAAAAAAACAGAACTGGCCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAA
GATGAACGAGCTCGGATCCGTGTGGAGCACATTATCCGGGAAGACTACTTCGTGGAGGCCATGGAGATCCTGGAG
CTGTACTGTGATCTGCTGCTGGCTCGGTTTGGCCTTATCCAGTCTATGAAGGAACTAGATTCTGGTCTGGCTGAA
TCTGTGTCTACATTGATCTGGGCTGCTCCTCGACTCCAGTCAGAAAGTGGCTGAGTTGAAAATAGTTGCTGATCAG
CTCTGTGCCAAGTATAGCAAGTAATATGGCAAGCTATGTAGGACCAACCAGATTGGAACGTGAATGACAGTTTA
AGGCCTCGCTTAGTTGTACTGGATTCTCAGGGAGTCCTCTGTGGCCTTTTGCTCTGAGTGCTGTTTCCCTTGTAC
CAGAGGGCAGCACCATGGAAATTCTGTTTTTCTGTAGCATATTGT

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FIGURE 5399

TGCCAGTCCATCTGACATCAAAGCCAGTGTCTCTAATGGTGACACCACCTCCTCTGCAGCAGGAGGCAGAGCTG
TGGGATGAATGAGGTTTCGCCAGGTCTCCCTTACCTATCCTGGGTCCCCAGCTCCTTCTCACTCTCTTCCCTTGCA
GCCTCGAAGCGGAGGATCCCTGTGTCTCCAGCCGGGCATGGCGACCCCCACCAGCTTTTCGATGACACAAGTTTCAG
CCCAGAGCCGGGGCTATGGGGCCCAGCGGGCACCTGGTGGCCTGAGTTATCCTGCAGCCTCTCCCACGCCCCATG
CAGCCTTCCTGGCTGACCCGGTGTCCAACATGGCCATGGCCTATGGGAGCAGCCTGGCCGCGCAGGGCAAGGAGC
TGGTGGATAAGAACATCGACCGCTTCATCCCCATCACCAAGCTCAAGTATTACTTTGCTGTGGACACCATGTATG
TGGGCAGAAAGCTGGGCCTGCTGTTCTTCCCTACCTACACCAGGACTGGGAAGTGCAGTACCAACAGGACACCC
CGGTGGCCCCCGCTTTGACGTCAATGCCCCGGACCTCTACATTCCAGCAATGGCTTTTCATCACTACGTTTTTG
TGGCTGGTCTTGCGCTGGGGACCCAGGATAGGTTCTCCCCAGACCTCCTGGGGCTGCAAGCGAGCTCAGCCCTGG
CCTGGCTGACCCCTGGAGGTGCTGGCCATCCTGCTCAGCCTCTATCTGGTCACTGTCAACACCGACCTCACCACCA
TCGACCTGGTGGCCTTCTTGGGCTACAAATATGTCGGGATGATTGGCGGGGTCTCATGGGCCTGCTCTTCGGGA
AGATTGGCTACTACCTGGTGTGGGCTGGTGTGCTGCGTAGCCATCTTTGTGTTTCATGATCCGGACGCTGCGGCTGA
AGATCTTGGCAGACGCAGCAGCTGAGGGGGTCCCGGTGCGTGGGGCCCGGAACCAGCTGCGCATGTACCTGACCA
TGGCGGTGGCGGCGGCGCAGCCTATGCTCATGTACTGGCTCACCTTCCACCTGGTGGCGGTGAGCGCGCCCGCTGA
ACCTCCCGCTGCTGCTGCTGCTGCTGGGGGCCACTGTGGCCGCCGAACCTCATCTCCTGCCTGCAGGCCCCAAGGT
CCACCTGTCTGGCCACAGGCACCGCCTCCATCCCATGTCCCGCCAGCCCCGCCCCCAACCAAGGTGCTGAGA
GATCTCCAGCTGCACAGGCCACCGCCCCAGGGCGTGGCCGCTGTTACAGAAACAATAAACCTGATGGGCATGG

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FIGURE 5400

MRFARSPLPILGPQLLLTLFPCSLEAEDPCVPAGHGDPHQLFDDTSSAQSRGYGAQRAPGGLSYPAASPTPHAAF
LADPVSNMAMAYGSSSLAAQGKELVDKNIDRFIPITKLKYYFAVD TMYVGRKLGLLFFPYLHQDWEVQYQQDTPVA
PRFDVNAPDLYIPAMAFITYVLVAGLALGTQDRFSPDLLGLQASSALAWLTLEVLAILLSLYLVTVNTDLTTIDL
VAFLGYKYVGMIGGVLMGLLFGKIGYYLVLGWCCVAIFVFMIRTLRLKILADAAAEGVPVRGARNQLRMYLTMAV
AAAPMLMYWLTFLVR

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FIGURE 5401

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCCGCGGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCATGTA
CGAGCAACTCAAGGGCGAGTGGAAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTCTGACTCAA
GCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCG
TGACATACTGGAGATCGGGGCCCCAATGGAGCATCCTACGCAAGGACATCCCCCTCCTTCGAGCGCTACATGGCCCA
GCTCAAATGCTACTACTTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGGGCCTCAA
CCTCCTCTTCTGCTGTGCCAGAACC GG GTGGCTGAGTTCCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGTT
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA
GATCGCTGGGTGCATCGAGAAGGCCCTACGAGAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTTCAACAC
ACCAAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCTGGGCCCCAACAACTACTACAGTTTTGCCAG
CCAGCAGCAGAAGCCGGAAGACACCACCATTCCTCCACAGAACTGGCCAAACAGGTCATCGAGTATGCCCGGCA
GCTGGAGATGATCGTCTGAGCCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAACAGTTACACTGCA
GGGTTTCGCCCAATAAAAGGTGGACTGAC

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FIGURE 5402

MYEQLKGEWNRKSPNLSKCGEELGRLKLVLELNFLLPTTGKLTQQQLILARDILEIGAQWSILRKDIPSFERYM
AQLKCYFDFYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLEQYLMESYNK
VFLAKGNIPAESYTFFIDILLDTIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMTDYAKKRGWVLGPNNYYSF
ASQQQKPEDTTIPSTELAKQVIEYARQLEMIV

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FIGURE 5403A

TCTACCTCGCGGGTGCCTCTGGTGTCTCCAGAGGTCTCCGACCCAGCCCGCCCCAGCCCTCCCGCCCAGCCCG
CAGCCCCCTCCCTCTGTTCCCCGACCTCAGACCCCTGGGCTTCCGACCTCGACATCATGGGTGACGAGAAGGCGA
AGACGAGGTCCAGTTCCTGCGGACGGACGATGAGGTGGTCTCGAGTGCAGCGCTACCGTGCTCAAGGAGCAGCT
CAAGCTCTGCCTGGCCGCCGAGGGCTTCGGCAACCGCTGTGCTTCTGGAGCCCACTAGCAACGCGCAGAATGT
GCCCCCGATCTGGCCATCTGTTGCTTCGTCTGGAGCAGTCCCTGTCTGTGCGAGCCCTGCAGGAGATGCTGGC
TAACACGGTGGAGGTGGCGTGGAGTCATCCAGGGCGGGGACACAGGACGCTCCTGTATGGCCATGCCATCCT
GCTCCGGCATGCACACAGCCGATGTATCTGAGCTGCCTCACCACCTCCCGCTCCATGACTGACAAGCTGGCCTT
CGATGTGGGACTGCAGGAGGACGCAACAGGAGAGGCTTGCTGGTGGACCATGCACCCAGCCTCCAAGCAGAGGTG
TGAAGGAGAAAAGGTCCGCGTGGGGATGACATCATCCTTGTCAGTGTCTCCTCCGAGCGCTACCTGCACCTGTC
GACCGCCAGTGGGGAGCTCCAGGTTGACGCTTCCTTCATGCAGACACTATGGAACATGAACCCCATCTGCTCCCG
CTGCGAAGAGGGCTTCGTGACGGGAGGTACGTCCTCCGCTCTTTCATGGACATATGGATGAGTGTCTGACCAT
TTCCCTGTCTGACAGTGATGACCAGCGCAGACTTGCTACTATGAGGGGGGAGCTGTGTGCACTCATGCCCGCTC
CCTCTGGAGGTGGAGCCACTGAGAATCAGCTGGAGTGGGAGCCACCTGCGCTGGGGCCAGCCACTCCGAGTCCG
GCATGTCTACTACCGGGCAGTACCTAGCGCTCACCAGGACCAGGGCCTGGTGGTGGTTGACGCCAGCAAGGCTCA
CACCAAGGCTACCTCCTTCTGCTTCCGCATCTCCAAGGAGAAGCTGGATGTGGCCCCAAGCGGGATGTGGAGGG
CATGGGCCCCCTGAGATCAAGTACGGGGAGTCACTGTGCTTCGTGCAGCATGTGGCCTCAGGACTGTGGCTCAC
CTATGCTGTCTCAGACCCCAAGGCCCTGCGGCTCGGCGTGCTCAAGAAGAAGGCCATGCTGCACCAGGAGGGCCA
CATGGACGACGCATGTGCTGACCCGCTGCCAGCAGGAGGAGTCCAGGCCGCCGCATGATCCACAGCACCAA
TGGCCTATACAACAGTTTCATCAAGAGCCTGGACAGTTCAGCGGGAAGCCACGGGGCTCGGGGCCACCCGCTGG
CACGGCGCTGCCCATCGAGGGCGTTATCCTGAGCCTGCAGGACCTCATCTACTTCGAGCCTCCCTCCGAGGA
CTTGACGACGAGGAGAAGCAGAGCAAGCTGCCAAGCCTGCGCAACCGCCAGAGCCTCTTCCAGGAGAGGGGAT
GCTCTCCATGGTCTGAAATTGCATAGACCGCTAAATGTCTACACCACTGCTGCCCACTTCTGCTGAGTTTGAGG
GGAGGAGGCAGCCGAGTCTGGAAGAGATTGTGAATCTTCTATGAACCTCTAGCTTCTCTAATCCGTGGCAA
TCGTAGCAACTGTGCCCTCTTCTCCACAACTTGGACTGGCTGGTCAGCAAGCTGGATCGGCTGGAGGCCTCGTC
TGGCATCCTGGAGGTCTGTACTGTGCTCATTGAGAGTCCAGAGTCTGAACATCATCCAGGAGAATCACAT
CAAGTCCATCATCTCCCTCCTGGACAAGCATGGGAGGAACCACAAGGTCTGGACGTGCTATGCTCCCTGTGTGT
GTGTAATGGTGTGGCTGTACGCTCCAACCAAGATCTTATTACTGAGAACTTGCTGCCTGGCCGTGAGCTTCTGCT
GCAGACAAACCTCATCAACTATGTCACCAGCATCCGCCCCAACATCTTTGTGGCCGAGCGGAAGGCACACGCA
GTACAGCAAATGGTACTTTGAGGTGATGGTGGACGAGGTGACTCCATTTCTGACAGCTCAGGCCACCCACTTGCG
GGTGGGCTGGGCCCTACCGAGGGCTACCCCCCTACCTGGGGCCGGCGAGGGCTGGGGCGGCAACGGGGTCGG
CGATGACCTCTATTCTACGGCTTTGATGGACTGCATCTCTGGACAGGACACGTGGCACGCCAGTGACTTCCCC
AGGGCAGCACCTCTGGCCCCCTGAAGACGTGATCAGCTGCTGCCTGGACCTCAGCGTGCCGTCCATCTCCTTCCG
CATCAACGGCTGCCCGTGCAGGGTGTCTTTGAGTCTTCAACCTGGACGGGCTCTTCTTCCCTGTTGTGACGTT
CTCGGCTGGTGTCAAGGTGCGGTTCTCCTTGGTGGCCGCCATGGTGAATTCAAGTCTCTGCCCCACCTGGCTA
TGCTCCATGCCATGAGGCTGTGCTCCCTCGAGAGCGACTCCATCTTGAACCCATCAAGGAGTATCGACGGGAGGG
GCCCCGGGGGCTCACCTGGTGGGCCCCAGTCGCTGCCTCTCACACACCGACTTCGTGCCCTGCCCTGTGGACAC
TGTCCAGATTGTCTGCGCCCCATCTGGAGCGCATTCGGGAGAAAGCTGGCGGAGAACATCCACGAGCTCTGGGC
GCTAACCCGCATCGAGCAGGGCTGGACCTACGGCCCGGTTTCGGGATGACAACAAGAGGCTGCACCCGTGTCTTGT
GGACTTCCACAGCCTTCCAGAGCCTGAGAGGAACTACAACCTGCAGATGTCTGGGGAGACGCTCAAGACTCTGCT
GGCTCTGGGCTGCCACGTGGGCATGGCGGATGAGAAGGCGGAGGACAACCTGAAGAAGACAAAACCTCCCCAAGAC
GTATATGATGAGCAATGGGTACAAGCCGGCTCCGCTGGACCTGAGCCACGTGCGGCTGACGCCGGCGCAGACGAC
ACTGGTGGACCGTCTGGCAGAAAATGGGCACAACGTGTGGGCCCCGAGACCGCTGGGCCAGGGCTGGAGCTACAG
CGCAGTGCAGGACATCCAGCGCGCCGAAACCTCGGCTGGTGCCTACCGCTGCTGGATGAAGCCACCAAGCG
CAGCAACCGGGACAGCCTCTGCCAGGCCGTGCGCACCTCTGGGCTACGGCTACAACATCGAGCCTCCTGACCA
GGAGCCAGTCAGGTGGAGAACCAGTCTCGTTGTGACCGGGTGCATCTTCCGGGCAGAGAAATCTATACAGT
GCAGAGCGGCCGCTGGTACTTCGAGTTTGAAGCAGTACCACAGGCGAGATGCGCGTGGGCTGGGCGAGGCCGA
GCTGAGGCCTGATGTAGAGCTGGGAGCTGACGAGCTGGCCTATGTCTTCAATGGGCACCGCGGCCAGCGCTGGCA
CTTGGGCAGTGAACATTTGGGCGCCCCGTCAGCCGGGCGATGTGCTGGCTGTATGATCGACCTCACAGAGAA

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FIGURE 5403B

CACCATTATCTTCACCCTCAATGGCGAGGTCTCTCATGTCTGACTCAGGCTCCGAAACAGCCTTCCGGGAGATTGA
GATTGGGGACGGCTTCCCTGCCCCGTCTGCAGCTTGGGACCTGGCCAGGTGGGTTCATCTGAACCTGGGCCAGGACGT
GAGCTCTCTGAGGTTCTTTGCCATCTGTGGCCTCCAGGAAGGCTTCGAGCCATTTGCCATCAACATGCAGCGCCC
AGTCACCACCTGGTTCAGCAAAGGCCTGCCCCAGTTTGAGCCAGTGCCCCCTTGAACACCCTCACTATGAGGTATC
CCGAGTGGACGGCAGTGTGGACACGCCCCCTGCCTGCGCCTGACCCACCGCACCTGGGGCTCCCAGAACAGCCT
GGTGGAGATGCTTTTCTGCGGCTGAGCCTCCAGTCCAGTTCCACCAGCACTTCCGCTGCACTGCAGGGGGCCAC
CCCGCTGGCACCTCCTGGCCTGCAGCCCCCGCCGAGGACGAGGCCCCGGCGGGCGGAACCCGACCCTGACTACGA
AAACCTGCGCCGCTCAGCTGGGGCTGGAGCGAGGCAGAGAACGGCAAAGAAGGGACTGCGAAGGAGGGCGCCCC
CGGGGGCACCCCGCAGGCGGGGGGAGAGGCGCAGCCCCGCCAGGGCGGAGAATGAGAAGGATGCCACCACCGAGAA
GAACAAGAAGAGAGGCTTCTTATTCAAGGCCAAGAAGGTGCGCATGATGACCCAGCCACCGGCCACCCCCACGCT
GCCCCGACTCCCTCACGACGTGGTGCTGCAGACAACCGCGATGACCCGAGATCATCTCAACACCACACGTA
CTATTACTCCGTGAGGGTCTTTGCTGGACAGGAGCCCAGCTGCGTGTGGGCGGGCTGGGTACCCCTGACTACCA
TCAGCACGACATGAGCTTCGACCTCAGCAAGGTCCGGGTGCTGACGGTGACCATGGGGGATGAACAAGGCAACGT
CCACAGCAGCCTCAAGTGTAGCAACTGCTACATGGTGTGGGGCGGAGACTTTGTGAGTCCCGGGCAGCAGGGCCG
GATCAGCCACACGGACCTTGTCTATTGGGTGCCTGGTGGACTTGGCCACTGGCTTAATGACCTTTACAGCCAATGG
CAAAGAGAGCAACACCTTTTTCCAGGTGGAACCCAACACTAAGCTATTTCTGCGCTCTTCGTCTGCCACCCA
CCAGAACGTATCCAGTTTGAGCTGGGGAAGCAGAAGAACATCATGCCGTTGTGAGCCGCCATGTTCCAAAGCGA
GCGCAAGAACC CGGCCCGCAGTGCCACCGCGGTGGAGATGCAGATGCTGATGCCAGTGTCTGGAGCCGCAT
GCCCAACCACTTCTGCAAGTGGAGACGAGGCGTGCCGGCGAGCGGTGGGCTGGGCCGTGCAGTGCCAGGAGCC
GCTGACCATGATGGCGCTGCACATCCCCGAGGAGAACCGGTGCATGGACATCCTGGAGCTGTCGGAGCGCCTGGA
CCTGCAGCGCTTCCACTCGCACACCCTGCGCCTCTACCGCGCTGTGTGCGCCCTGGGCAACAATCGCGTGGCGCA
CGCTCTGTGCAGCCACGTAGACCAAGCTCAGCTGCTGCACGCCCTGGAGGACGCGCACCTGCCAGGCCCCACTGCG
CGCAGGCTACTATGACCTCCTCATCAGCATCCACCTCGAAAGTGCTGCCGAGCCGCCCTCCATGCTCTCTGA
ATACATCGTGCCCTCACGCCTGAGACCCGCGCCATCACGCTCTTCCCTCCTGGAAGGAGCACAGAAAATGGTCA
CCCCGGCATGGCCTGCCGGGAGTTGGAGTCACTTTCGTGAGGCCCCGCATCATTTCTCGCCCCCTGTTT
CGTGGCCGCTCTGCCAGCTGCTGGGGCAGCAGAGGCCCGGCCCTCAGCCCTGCCATCCCCGCTGGAGGCCCT
GCGGGACAAGGCACTGAGGATGCTGGGGAGGCGGTGCGCGACGTTGGGCGACGCTCGCGACCCCGCTCGGGGG
CTCCGTGGAGTTCCAGTTTGTGCTGTGCTCAAGCTCGTGTCCACCTGCTGGTGTGAGGATGTTGGCGATGA
GGATGTGAACAGATCTTGAAGATGATTGAGCTGAGGTCTTCACTGAGGAAGAAGAGGAGGAGGACGAGGAGGA
AGAGGGTGAAGAGGAAGATGAGGAGGAGAAGGAGGAGGATGAGGAGGAAGACAGCAAGGAAAAGGAAAGATGAGGA
AAAAGAGGAAGAGGAGGAGCAGCAGAAGGGGAGAAAGAAGAAGGCTTGGAGGAAGGGCTGCTCCAGATGAAGTTGCC
AGAGTCTGTGAAGTTACAGATGTGCCACCTGCTGGAGTATTTCTGTGACCAAGAGCTGCAGCACCGTGTGGAGTC
CCTGGCAGCCTTTGCGGAGCGCTATGTGGACAAGCTCCAGGCCAACCAGCGGAGCCGCTATGGCCTCCTCATAAA
AGCCTTCAGCATGACCGCAGCAGAGACTGCAAGACGTACCCGCGAGTTCCGCTCCCCACCCAGGAAACAGATCAA
TATGCTATTGCAATTCAAAGATGGTACAGATGAGGAAGACTGTCTCTCCCTGAAGAGATTCGACAGGATTTGCT
TGACTTTTCATCAAGACCTGCTGGCACACTGTGGAATTACGCTAGATGGAGAGGAGGAGGAACCAGAGGAAGAGAC
CACCTTGGGCAGCCGCTCATGAGCCTGTTGGAGAAAGTGCGGCTGGTGAAGAAGAAGGAAGAGAAACCTGAGGA
GGAGCGGTGAGCAGAGGAGAGCAAACCCCGGTCCCTGCAGGAGCTGGTGTCCACATGGTGGTGCCTGGGCCCA
AGAGGACTTCTGTGAGAGCCCCGAGCTGGTGCGGGCCATGTTACGCTCCTGCACCGGCAGTACGACGGGCTGGG
TGAGCTGCTGCGTGCCCTGCCGCGGGCGTACACCATCTACCGTCTCCGTGGAAGACACCATGAGCCTGCTCGA
GTGCTCGGCCAGATCCGCTCGCTGCTCATCGTGAGATGGGCCCCCAGGAGGAGAACCTCATGATCCAGAGCAT
CGGGAACATCATGAACAACAAAGTCTTCTACCAACACCCGAACCTGATGAGGGCGCTGGGCATGCACGAGACGGT
CATGGAGGTGATGGTCAACGTCCTCGGGGGCGGCGAGTCCAAGGAGATCCGCTTCCCCAAGATGGTGACAAGCTG
CTGCCGCTTCTCTGCTATTTCTGCCGAATCAGCCGGCAGAACAGCGCTCCATGTTTGACCACCTGAGCTACCT
GCTGGAGAACAGTGGCATCGGCCTGGGCATGCAGGGCTCCACGCCCTGGACGTGGCTGCTGCCTCCGTGATTGA
CAACAATGAGCTGGCCTTGGCATTGCAGGAGCAGGACCTGGAAAAGGTTGTGTCTACCTGGCAGGCTGTGGCCT
CCAGAGCTGCCCCATGCTTGTGGCCAAAGGGTACCCAGACATTGGCTGGAACCCCTGTGGTGGAGAGCGCTACCT
GGACTTCTGCGCTTTGCTGTCTTCGTCAACGGCGAGAGCGTGGAGGAGAACGCCAATGTGGTGGTGCCTGCT

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FIGURE 5403C

CATCCGGAAGCCTGAGTGCTTCGGACCCGCCCTGCGGGGTGAGGGTGGCTCAGGGCTGCTGGCTGCCATCGAAGA
GGCCATCCGCATCTCCGAGGACCCTGCGAGGGATGGCCCAGGCATCCGCAGGGACCGGCGCGGAGCACTTTGG
TGAGGAACCGCCTGAAGAAAACCGGTGCACCTGGGACACGCCATCATGTCTTCTATGCCGCTTGATCGACCT
GCTCGGACGCTGTGCACCAGAGATGCATCTAATCCAAGCCGGCAAGGGTGAGGCCCTGCGGATCCGCGCCATCCT
CCGCTCCCTTGTGCCCTTGGAGGACCTTGTGGGCATCATCAGCCTCCCACTGCAGATTCCCACCTGGGCAAAGA
TGGGGCTCTGGTGCAGCAAAGATGTCAGCATCCTTCGTGCCGGACCACAAGGCGTCCATGGTGCTCTTCTTGGA
CCGTGTGTATGGCATCGAGAACCAGGACTTCTTGCTGCACGTGCTGGACGTGGGGTTCTGCCCCGACATGAGGGC
AGCCGCCCTCGCTGGACACGGCCACTTTCAGCACCACCGAGATGGCGCTGGCGCTGAACCGCTACCTGTGCCTGGC
CGTGCTGCCGCTCATACCAAGTGTGCGCCGCTCTTTGCGGGCACAGAACACCGCGCCATCATGGTGGACTCTAT
GCTGCATACCGTGTACCGCCTGTCTCGGGTTCGTTTCGCTACCAAGGCGCAGCGTGACGTATCGAGGACTGCCT
CATGTGCTCTGCAGGTACATCCGCCCCTCGATGCTGCAGCACCTGTTGCGCCGCTGGTGTTGACGTGCCCAT
CCTCAACGAGTTTCGCCAAGATGCCACTCAAGCTCCTCACCAACCACTATGAGCGCTGTTGGAAGTACTACTGCCT
ACCCACGGGCTGGGCCAACTTCGGGGTCACCTCAGAGGAGGAGCTGCACCTCACACGGAACTCTTCTGGGGCAT
CTTTGACTCTCTGGCCCATAGAAAATACGACCCGGAGCTGTACCGCATGGCCATGCCTTGTCTGTGCGCCATTGC
CGGGCTCTGCCCCCGACTATGTGGATGCCTCATCTCATCTAAGGCAGAGAAAAAGGCCACAGTGGAATGCTGA
AGGCAACTTTGATCCCCGGCCTGTGGAGACCCTCAATGTGATCATCCCGGAGAAGCTGGACTCCTTCATTAACAA
GTTTGCGGAGTACACACAGAGAAGTGGGCTTCGACAAGATCCAGAACAAGCTGGTCTATGGAGAGAACATAGA
CGAGGAGCTGAAGACCCACCCCATGCTGAGGCCCTACAAGACCTTTTCAGAGAAGGACAAAGAGATTTACCGCTG
GCCCATCAAGGAGTCCCTGAAGGCCATGATTGCCTGGGAATGGACGATAGAGAAGGCCAGGGAGGGTGAGGAGGA
GAAGACGGAAAAAGAAAAAACGCGGAAGATATCAAAAGTGCCAGACCTATGATCCTCGAGAAGGCTACAACCC
TCAGCCCCCGACCTTAGTGCTGTTACCTGTCTCCCGGAGCTGCAGGCCATGGCAGAACAACTGGCAGAAAATTA
CCACAACACGTGGGGACGGAAGAAGAAGCAGGAGCTGGAAGCCAAAGGCGGTGGGACCCACCCCTGCTGGTCCC
CTACGACACGCTCACGGCCAAGGAGAAGGCACGAGATCGAGAGAAAGGCCAGGAGCTACTGAAATTCCTGCAGAT
GAATGGCTACGCGGTTACAAGAGGCCCTTAAGGACATGGAAGTGGACTCGTCTTCCATTGAAAAGCGGTTTGCTT
TGGCTTCTGCGAGCTGCTGCGCTGGATGGACATTTCTCAGGAGTTCATTGCCACCTGGAGGCTGTGGTCAG
CAGTGGGCGAGTGGAAAAGTCCCACATGAACAGGAGATTAAATTCCTTGCCAAGATCCTGCTCCCTTTGATCAA
CCAGTACTTCACCAACCCTGCCTCTATTCTTGTCCACTCCGGCTAAAGTGCTGGGCAGCGGTGGCCACGCTC
TAACAAGGAGAAGGAAATGATCACCAGCCTCTTCTGCAAACTTGCTGCTCTCGTCCGCCACCGAGTCTCTCTCTT
TGGGACAGACGCCCCAGCTGTGGTCAACTGTCTTCACATCCTGGCCCCGCTCCCTGGATGCCAGGACAGTGATGAA
GTCAGGCCCCTGAGATCGTGAAGGCTGGCTCCGCTCCTTCTTCGAGAGTGCTCGGAGGACATCGAGAAGATGGT
GGAGAACCCTGCGGCTGGGCAAGGTGTCGACGGCGCGCACCCAGGTGAAAGGCGTGGGCCAGAACCTCACCTACAC
CACTGTGGCACTGCTGCCGGTCTCACCACCTCTTCCAGCACATCGCCAGCACAGTTCGGAGATGACGTAT
CCTGGACGACGTCCAGGTCTCTTGCTACCGAACGCTGTGCAGTATCTACTCCCTGGGAACCAACAAGAACTTA
TGTGGAAAAGCTTCGGCCAGCCCTCGGGGAGTGCTGGCCCGCTTGGCAGCAGCCATGCCGGTGGCGTTCTGGA
GCCGAGCTGAACGAGTACAACGCCCTGCTCCGTGTACACCACCAAGTCTCCGCGGGAGCGGGCCATCCTGGGGCT
CCCCAACAGTGTGGAGGAGATGTGTCCGACATCCCGGTGCTGGAGCGGCTCATGGCAGACATTGGGGGGCTGGC
CGAGTCAGGTGCCCGCTACACAGAGATGCCGCATGTATCGAGATCACGCTGCCATGCTATGCAGCTACCTGCC
CCGATGGTGGGAGCGCGGGCCCGAGGCACCCCTTCCGCCCTGCCGCGGGCGCCCCCCCCACCCTGCACAGCTGT
CACCTCTGACCACCTCAACTCCCTGCTGGGGAATATCCTGAGAATCATCGTCAACAACCTGGGCATTGACGAGGC
CTCCTGGATGAAGCGGCTGGCTGTGTTTCGACAGCCCATTTGTGAGCCGTGCACGGCCGGAGCTCCTGCAGTCCCA
CTTCATCCCAACTATCGGGCGGCTGCGCAAGAGGGCAGGGAAGGTGGTGTCCGAGGAGGAGCAGCTGCGCTGGA
GGCCAAGGCGGAGGCCAGGAGGGCGAGCTGCTGGTGCGGGACGAGTTCTCTGTGCTCTGCCGGGACCTCTACGC
CCTGTATCCGCTGCTCATCCGCTACGTGGACAACAACAGGGCGCAGTGGCTGACGGAGCCGAATCCCAGCGCGGA
GGAGCTGTTCAAGATGGTGGGCGAGATCTTCATCTACTGGTCCAAGTCCCACTTCAAGCGCGAGGAGCAGAA
CTTTGTGGTCCAGAAATGAGATCAACAACATGTCTTCTGACTGCTGACAACAAAAGCAAAATGGCTAAGGCGGG
AGATATACAGTCCGGTGGCTCGGACCAGGAACGCACCAAGAAGAAGCGCCGGGGGACCGGTACTCTGTGCAGAC
GTCATGATCGTGGCCACACTGAAGAAGATGCTGCCCATCGGCCTGAATATGTGTGCGCCACCGACCAAGACCT
CATCAGCTGGCCAAGACCCGTTACGCCCTGAAAGACACAGATGAGGAGGTCCGGGAATTTCTGCACAACAACCT

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FIGURE 5403D

TCACCTTCAGGGAAAGGTCGAAGGCTCCCCGTCTCTGCGCTGGCAGATGGCTCTGTACCGGGGCGTCCCGGGTCCG
CGAGGAGGACGCCGATGACCCCGAGAAAATCGTGCGCAGAGTCCAGGAAGTGTGAGCCGTGCTCTACTACCTGGA
CCAGACCGAGCACCCCTTACAAGTCTAAGAAGGCCGTGTGGCACAAGCTTTTGTCCAAACAGCGCCGGCGGGCAGT
CGTGGCCTGTTTTCCGTATGACGCCCCGTGTACAACCTGCCACGCACCGGGCATGTAACATGTTCTTGAGAGCTA
CAAGGCTGCATGGATCCTGACTGAAGACCACAGTTTTGAGGACCGCATGATAGATGACCTTTCAAAGCTGGGGA
GCAGGAGGAGGAGGAGGAAGAGGTGGAAGAGAAGAAGCCAGACCCCTGCACCAGTTGGTCTGCACTTCAGCCG
CACTGCCCTGACGGAAAAGAGCAAACCTGGATGAGGATTACCTGTACATGGCCTATGCTGATATCATGGCAAAGAG
CTGCCACCTGGAGGAGGGAGGGGAGAACGGTGAAGCTGAAGAGGAGGTTGAGGTCTCCTTTGAGGAGAAAACAGAT
GGAGAAGCAGAGGCTCTTGTAACAGCAAGCACGGCTGCACACCCGGGGGGCGGCCGAGATGGTGTGTCAGATGAT
CAGTGCCCTGCAAAGGAGAGACAGGTGCCATGGTGTCTCCACCCTGAAGCTGGGCATCTCCATCCTCAATGGAGG
CAATGCTGAGGTCCAGCAGAAAATGCTGGATTATCTTAAGGACAAGAAGGAAGTTGGCTTCTTCCAGAGTATCCA
GGCACTGATGCAAACATGCAGCGTCTTGATCTCAATGCCTTTGAGAGACAGAAACAGGCCGAGGGGCTGGGCAT
GGTGAATGAGGATGGCACTGTCTCAATGCCAGAACGGAGAGAAGGTGATGGCGGATGATGAATTCACACAAGA
CCTGTTCCGATTCTTACAATTGCTCTGTGAGGGGCACAATAATGATTTCCAGAACTACCTACGGACACAGACAGG
GAACAGCAGACTATTAACATCATCATTTGCACTGTGGACTACCTCCTGCGGCTGCAGGAATCCATCAGCGACTT
CTACTGGTACTACTCGGGCAAGGATGTCAATGAAGAGCAGGGCAAGAGGAACCTTCTCAAAGCCATGTGGTGCC
TAAGCAGGTGTTCAACAGCCTCACTGAGTACATCCAGGGTCCCTGCACCGGGAACCAGCAGAGCCTGGCGCACAG
TCGCCTATGGGACGTCAGTGGTGGGATTCTGCACTGTTGCGCCACATGATGATGAAGCTCGCTCAGGACTCAAG
CCAGATCGAGCTGCTGAAGGAGCTGCTGGATCTGCAGAAGGACATGGTGGTGTGTTGCTGTGCTACTAGAAGG
GAACGTGGTGAACGGCATGATCGCCCGGCAGATGGTGACATGCTCGTGAATCCTCATCCAATGTGGAGATGAT
CCTCAAGTTCTTCGACATGTTCTTGAACCTCAAGGACATTGTGGGCTCTGAAGCCTTCCAGGACTACGTAACGGA
TCCCCGTGGCCTCATCTCCAAGAAGGACTTCCAGAAGGCCATGGACAGCCAGAAGCAGTTTACGCGGTCCAGAAAT
CCAGTTCTGCTTTCTGCTCCGAAGCGGATGAGAACGAAATGATCAACTGCGAAGAGTTGCGCAACCGCTTCCA
GGAGCCAGCACGCGACATCGGCTTCAACGTGGCGGTGCTGCTGACCAACCTGTGCGGAGATGTGCCGATGACCC
TCGCCTGCACAACCTTCTGGAGCTGGCCGAGAGCATCTTGAAGTACTTCCGCCCCCTACCTGGGCGCATCGAGAT
CATGGGCGCGTCACGCCGATCGAGCGCATCTACTTCGAGATCTCAGAGACCAACCGCGCCAGTGGGAGATGCC
CCAGGTGAAGGAGTCCAAGCGCCAGTTCATCTTCGACGTGGTGAACGAGGGCGCGGAGGCTGAGAAGATGGAGCT
CTTCGTGAGTTTCTGCGAGGACACCATCTTCGAGATGCAGATCGCCGCGCAGATCTCGGAGCCCGAGGGCGAGCC
GGAGACCGACGAGGACGAGGGCGCGGGCGCGGCGGAGGCGGGCGCGGAAGGCGCGGAGGAGGGCGCGCGGGGCT
CGAGGGCACGGCGGCCACGGCGGCGCGGGGGCGACGGCGCGGGTTGTGGCGGCCGAGGCCGGGCCCTGCGAGG
CCTCAGCTACCGCAGCCTGCGGCGGCGCGTGCGGCGGCTGCGGCGGCTTACGGCCCCGCGAGGCGGCCACCGCAGT
GGCGGCGCTGCTCTGGGCAGCAGTGACGCGCGCTGGGGCCGCTGGCGCGGGGGCGGCGGGCGCGCTGGGCCT
GCTCTGGGGCTCGCTGTTGCGCGGCGGCTGGTGGAGGGCGCCAAGAAGGTGACGGTGACCGAGCTCCTGGCAGG
CATGCCCCGACCCACAGCGACGAGGTGCACGGCGAGCAGCCGGCCGGGCGGGCGGAGACGCAGACGGCGAGGG
TGCCAGCGAGGGCGCTGGAGACGCCGCGGAGGGCGCTGGAGACGAGGAGGAGGCGGTGCACGAGGCCGGGCCGGG
CGGTGCCGACGGGGCGGTGGCCGTGACCGATGGGGGCCCTTCCGGCCCGAAGGGGCTGGCGGTCTCGGGGACAT
GGGGGACACGACGCTGCGGAACCGCCACACCCGAGGGCTCTCCCATCTCAAGAGGAAATTGGGGGTGGATGG
AGTGGAGGAGGAGCTCCCGCCAGAGCCAGAGCCGAGCCGGAACAGAGCTGGAGCCGGAGAAAGCCGATGCCGA
GAATGGGGAGAAGGAAGAAGTTCCCGAGCCACACAGAGCCCCCAAGAAGCAAGCACCTCCCTACCCCCCTCC
AAAGAAGGAGGAAGCTGGAGGCGAATTCTGGGGAGAAGTGGAGGTGACAGGGGTGAAGTTCTGAACTACCTGTC
CCGGAACTTTACACCTGCGGTTCTTGGCCTCTTCTTGGCATTTGCCATCAACTTCATCTTGCTGTTTTATAA
GGTCTCAGACTCTCCACGAGGGGAGGACGACATGGAAGGCTCAGCTGCTGGGGATGTGTGAGGTGACGGCTCTGG
TGGCAGCTCTGGCTGGGGCTTGGGGGCCGGAGAGGAGGAGGCGATGAGGATGAGAACATGGTGTACTACTT
CCTGGAGGAAAGCACAGGCTACATGGAACCCGCCCTGCGGTGTCTGAGCCTCCTGCATACACTGGTGGCCTTTCT
CTGCATCATTTGGCTATAATTGTCTCAAGGTGCCCTGGTAATCTTTAAGCGGGAGAAGGAGCTGGCCCGGAAGCT
GGAGTTTGATGGCCTGTACATCACGGAGCAGCCTGAGGACGATGACGTGAAGGGGCGAGTGGACCGACTGGTGTCT
CAACACGCGCTCTTTCCCTAGCAACTACTGGGACAAGTTTGTCAAGCGCAAGGTCTGGACAAACATGGGGACAT
CTACGGGCGGGAGCGGATTGCTGAGCTACTGGGCATGGACCTGGCCACACTAGAGATCACAGCCCAATGAGCG

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FIGURE 5403E

CAAGCCCAACCCGCCGCCAGGGCTGCTGACCTGGCTCATGTCCATCGATGTCAAGTACCAGATCTGGAAGTTCGG
GGTCATCTTCACAGACAACTCCTTCCTGTACCTGGGCTGGTATATGGTGATGTCCCTCTTGGGACACTACAACAA
CTTCTTCTTTGCTGCCCATCTCCTGGACATCGCCATGGGGGTCAAGACGCTGCGCACCATCCTGTCTCTGTAC
CCACAATGGGAAACAGCTGGTGATGACCGTGGGCCTTCTGGCGGTGGTCGTCTACCTGTACACCGTGGTGGCCTT
CAACTTCTTCCGCAAGTTCTACAACAAGAGCGAGGATGAGGATGAACCTGACATGAAGTGTGATGACATGATGAC
GTGTTACCTGTTTCACATGTACGTGGGTGTCCGGGCTGGCGGAGGCATTGGGGACGAGATCGAGGACCCCGCGGG
TGACGAATACGAGCTCTACAGGGTGGTCTTCGACATCACCTTCTTCTTCTTCGTATCGTCATCCTGTTGGCCAT
CATCCAGGGTCTGATCATCGACGCTTTTGGTGAGCTCCGAGACCAACAAGAGCAAGTGAAGGAGGATATGGAGAC
CAAGTGCTTCATCTGTGGAATCGGCAGTGACTACTTTGATACGACACCGCATGGCTTCGAGACTCACACGCTGGA
GGAGCACAACCTGGCCAATTACATGTTTTTCCTGATGTATTTGATAAACAAGGATGAGACAGAACACACGGGTCA
GGAGTCTTATGTCTGGAAGATGTACCAAGAGAGATGTTGGGATTCTTCCCAGCTGGTGATTGTTTCCGTAAGCA
GTATGAGGACCAGCTTAGCTGACACACCCCCAGCTGGCCCTCCACCCCCACCTCAAGTGCCTTATTCTCACAGCA
AGCCCCTTAGTCCCCAAGCCCCTCCCCCTAAGGCAGCTGGGGGAGAGGTGACCTAGTAC

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FIGURE 5404

GGAAAGCGTGGCGGCTGCTGCTAGAGCCTTTCCCTTTACCGCACCCAAGGAGCTGGAGCGACAACAACGACGTCG
TTTCCGTTTCCACCACCTCTTCCTGTTCCCGTCCTTGAGGACGCCGTGCCGGGTCAAGTGTAGCCTCCAGCCCTG
GTTGTGGAAGGCGACAGAAGTCATGGCGATGTTTGAGCAGATGAGAGCCAACGTGGGCAAGTTGCTCAAGGGTAT
CGACAGGTACAATCCTGAGAACCTGGCCACCCTGGAGCGCTATGTAGAGACGCAGGCCAAGGAAAATGCCTATGA
TCTGGAAGCCAACCTGGCTGTCCTGAAGCTGTACCAGTTCAACCCAGCCTTCTTTAGACCACGGTCACCGCCCA
GATCCTGCTGAAGGCCCTCACCAACTTGCCGCACACAGACTTCACCCTGTGCAAGTGATGATCGACCAGGCACA
TCAAGAAGAACGGCCAATCCGACAGATTTTGTACCTCGGGGACCTGCTGGAGACCTGCCATTTCCAGGCCTTCTG
GCAAGCCCTGGATGAAAACATGGACCTCTTGGAAGGTATAACTGGCTTTGAAGACTCTGTCCGAAAGTTTATCTG
CCATGTTGTGGGTATCACTTACCAGCACATTGACCGCTGGCTGCTGGCCGAGATGCTCGGGGATCTGTCCGGACAG
CCAGCTAAAGGTGTGGATGAGCAAATACGGCTGGAGTGCCGACGAGTCGGGGCAGATCTTCATCTGTAGCCAAGA
AGAGAGCATTAAACCCAAGAACATTGTGGAGAAGATTGACTTTGACAGTGTGTCCAGCATCATGGCCTCCTCCCA
GTAACCTTCAGGTGTTTAATAAAGATGTGTTGACTCAG

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FIGURE 5405

MAMFEQMRANVGKLLKGIDRYNPENLATLERYVETQAKENAYDLEANLAVLKLYQFNPAFFQTTVTAQILLKALT
NLPHTDFTLCKCMIDQAHQEERP IRQILYLGDLLETCHFOAFWQALDENMDLLEGITGFEDSVRKFI CHVVGITY
QHIDRWLLAEMLGDLSDSQLKVWMSKYGWSADESGQIFICSQEESIKPKNIVEKIDFDSVSSIMASSQ

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FIGURE 5406

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTCGCGGCTTGGTTCCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCCGGCTGGACACGTCCGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTTCAGCAGAAGCCCAGGCGGGCCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5407

MSNVPHKSSLPEGIRPGTVLRIRGLVFPNASRFHVNLLCGEEQGSDAALHFNPRLDTSEVVFNSEQGSWGREER
GPGVPFQRGQPFVLI IASDDGFKAVVGDAQYHHFRHRLPLARVRLVEVGDDVQLDSVRIF

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FIGURE 5408

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTCGCGGGCTTGGTTCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCCGGCTGGACACGTCGGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTGAGCAGAAGCCCAGGCGGGCCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5409

GTGTTGTACGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCC
CATTTCCTGGTGCCGTACAGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGT
GACGGGACAGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGCCAGAGCCAGACCCCTCTCACC
CTCTGGAGACCCAGGCAGGGAAGGTGCAGGAGGCTCAGGACTCAGATTGAGACTCTGAGGGAGGAGCCGCTGGTG
GAGAAGCAGACATGGACTTTCCTGCGGAACCTATTCTCCCAGACGCTCAGCCTGGGCGAGCCAGAAGGAGCGTCTGC
TGGACGAGCTGACCTTGGAAGGGGTGGCCCGGTACATGCAGAGCGAACGCTGTCGCAGAGTCATCTGTTTGGTG
GAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCCACCGGCCCTCTATGACAACCTAGAGA
AGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAGAAACATCCGGAACCCCTCTTCGCCC
TCGCCAAGGAACCTCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTTCATGCGCCTGCTGAAGGACAAGG
GGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCCTGGAGCGAATAGCCGGGCTGGAACAGGAGGACTTGG
TGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCACGAATACCCGCTAAGCTGGA
TGAAGAGAAGATCTTCTCTGAGGTGACGCCAAGTGTGAAGACTGTCAGAGCCTGGTGAAGCCTGATATCGTCT
TTTTTGGTGAGAGCCTCCCAGCGCGTTTCTTCTCCTGTATGCAGTCAGACTTCCTGAAGGTGGACCTCCTCCTGG
TCATGGGTACCTCCTTGCAAGGTGCAGCCCTTTGCCTCCCTCATCAGCAAGGCACCCCTCTCCACCCCTCGCCTGC
TCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTTCTGGGGATGATTATGGGCCTCGGAGGAGGCATGGACT
TTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGGCTGCCTGGCCCTTGCTGAGC
TCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCCGGAGGGAGCACGCCAGCATAGATGCCAGTCGGGGGCGG
GGGTCCCCAACCCACGACTTCAGCTTCCCCAAGAAGTCCCCGCCACCTGCCAAGGACGAGGCCAGGACAACAG
AGAGGGAGAAACCCAGTTGACAGCTGCATCTCCCAGCGGGATGCCGAGCTCCTCAGGGACAGCTGAGCCCCAAC
CGGGCCTGGCCCCCTCTTAACCAGCAGTTCTTGTCTGGGAGCTCAGAACATCCCCAATCTCTTACAGCTCCCT
CCCCAAACTGGGGTCCCAGCAACCCTGGCCCCCAACCCAGCAAATCTCTAACACCTCCTAGAGGCCAAGGCTT
AAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCACTCCTGGGCTAAGGAGTAACCTCCCTCATCTCTAACTG
CCCCACGGGGCCAGGGCTACCCAGAACCTTTAACTCTTCCAGGACAGGGAGCTTCGGGCCCCCACTCTGTCTC
CTGCCCCCGGGGCTGTGGCTAAGTAAACCATACTAACCTACCCAGTGTGGGTGTGGGCCTCTGAATATAAC
CCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTCAGCTCCCAAAGTGGGTGGTG
GGCCCCCTTACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTTATTGGAGACAAATTAAAAAC
AAAAACAATAAC

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FIGURE 5410

MAEPDPSHPLETQAGKVQEAQDSDSSEGGGAAGGEADMDFLRNLFSTLSLGSQKERLLDELTLEGVARYMQSER
CRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHLPYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHY
FMRLKDKGLLLRCYTQNIIDTLERAGLEQEDLVEAHGTFYTSVCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQ
SLVKPDIVFFGESLPARFFSCMQSDFLKVDLLLVMGTSQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMI
MGLGGGMDFDKSKAYRDVAWLGECDQGLALAEELLGWKKELEDLVRREHASIDAQSGAGVNPSTSPKSPFP
AKDEARTTEREKPQ

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FIGURE 5411

CGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCCCATTCTG
GTGCCGTACGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGTGACGGGAC
AGAGCGGTGCGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGGCAGAGCCAGACCGACTCAGATTGAGACTC
TGAGGGAGGAGCCGCTGGTGGAGAAGCAGACATCGACTTCTGCGGAACTTATTCTCCCAGACGCTCAGCCTGGG
CAGCCAGAAGGAGCGTCTGCTGGACGAGCTGACCTTGAAGGGGTGGCCCGGTACATGCAGAGCGAACGCTGTGCG
CAGAGTCATCTGTTTGGTGGGAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCCACCGG
CCTCTATGACAACCTAGAGAAGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACA
TCCGGAACCTTCTTCGCCCTCGCCAAGGAACCTATCTGGGCGAGTTCAAGCCAACCATCTGTCACTACTTCAT
GCGCCTGCTGAAGGACAAGGGGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCTGGAGCGAATAGCCGG
GCTGGAACAGGAGGACTTGGTGGAGGCGACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCA
CGAATACCCGCTAAGCTGGATGAAAGAGAAGATCTTCTCTGAGGTGACGCCCAAGTGTGAAGACTGTCAGAGCCT
GGTGAAGCCTGATATCGTCTTTTTTGGTGAGAGCCTCCCAGCGCCTTCTTCTCCTGTATGCAGTCAGACTTCCT
GAAGGTGGACCTCCTCCTGGTCATGGGTACCTCCTTGCAAGGTGCAGCCCTTGCCTCCCTCATCAGCAAGGCACC
CCTCTCCACCCCTCGCCTGCTCATCAACAAGGAGAAAAGCTGGCCAGTCGGACCCCTTTCCTGGGGATGATTATGGG
CCTCGGAGGAGGCATGGACTTTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGG
CTGCCTGGCCCTTGCTGAGCTCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCGGAGGGAGCACGCCAGCAT
AGATGCCCAGTCGGGGGCGGGGTCCCCAACCCAGCACTTCAGCTTCCCCAAGAAGTCCCCGCCACCTGCCAA
GGACGAGGCCAGGACAACAGAGAGGGAGAAAACCCAGTGAAGAGCTGCATCTCCAGGCGGGATGCCGAGCTCCTC
AGGGACAGCTGAGCCCCAACCGGGCCTGGCCCCCTCTTAACCAGCAGTTCTTGCTGGGGAGCTCAGAACATCCC
CCAATCTCTTACAGCTCCCTCCCCAAAACCTGGGGTCCCAGCAACCCTGGCCCCAACCCAGCAAATCTCTAACA
CCTCCTAGAGGCCAAGGCTTAAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCCTCCTGGGCTAAGGAGTA
ACCTCCCTCATCTCTAAGTCCCCCACGGGGCCAGGGCTACCCAGAACTTTAACTCTTCCAGGACAGGGAGCT
TCGGGCCCCCACTCTGTCTCCTGCCCCCGGGGGCCTGTGGCTAAGTAAACCATACCTAACCTACCCAGTGTGGG
TGTGGGCTCTGAATATAACCCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTC
AGCTCCCAAAGTGGGTGGTGGGCCCCCTTACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTT
ATTGGAGACAAATTAAAAACAAAACAACCTAACAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5412

MDFLRNLFSTLSLGSQKERLLDELTLEGVARYMQSERCRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHL
PYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHYFMRLKDKGLLLRCYTQNIIDTLERAGLEQEDLVEAH
GTFYTSHCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQSLVKPDIVFFGESLPARFFSCMQSDFLKVDLLVMGT
SLQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMIMGLGGGMDFDSKKAYRDVAWLGECDQGCLALAEELLGW
KKELEDLVRREHASIDAQSGAGVNPSTSPKPKSPPPAKDEARTTEREKPQ

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FIGURE 5413

TGAAGAGGCGGGACACAGACGACGATTGGGCGACGAAGGACTCTATCGCGGTCAACTTTCTCAGGATCTGATTG
GCTCGTCAAGGTCAGGTTTCGCTGCCTTGCAATTGGTCTAAACGCGGAGTGGGCGGGACGAAGTGCCGCCTTGTC
CCGGTCCAAGATGGCTGCGTCCATGGCGCGGCGCTTGTGGCCTTTGCTGACTCGTCGGGGGTTCGGCCCCGGGG
AGGCTGCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAACGAAACCGGAACCTCCTGTACGAGTA
TGC GCGCGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCAGAAAGAGGCCGCACA
CGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCGATCATCTCGACATGGCAGGAGCTGAG
GCAGCTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGTGCGGGCCCTGTCTGGC
AAACCAGGACAGTGGTGAAGTGCAGCAGGACCCCAAGTACCAGGGTCTGCGGGCACGTGGCCGGGAGATCCGGAA
GGAGCTTGTTACCTGTACCCAGGGAGGCCAGCTTGAGGAGCAGTTCTACCTGCAGGCGCTGAAGCTGCCCCAA
CCAGACCCACCCAGACGTGCCCGTGGGGATGAGAGCCAGGCTCGAGTGCTCCACATGGTCGGAGACAAGCCAGT
TTTCTCCTTCCAACCTCGGGGCCACCTGGAAATTGGCGAGAACTCGACATCATCCGTGAGAAGCGCCTGTCCCA
CGTGCTGCGCCACCGGTCTATTACCTGCGCGGGGCTGGAGCCCTCCTGCAGCACGGCCTGGTCAACTTCACATT
CAACAAGCTTCTCCGCCGGGGCTTCACCCCATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTTTGAAGGCTG
TGGGATGACACCAAATGCCAACCCTCCCAAATTTACAACATCGACCTGCCCGCTTCAAAGATCTCAACCTGGC
TGAACAGCGGAGGTGGGGCTTGCAAGGCTACTTCATGGACCACACCGTGCCCTTCAGGGACCTGCCAGTCAGGAT
GGTTTGCTCCAGCACCTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCA
CTTACCAAGGTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTTCTT
GTCCCTTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACTTCCGGGTCTGGATATGCCACCCCAAGAACTGGG
CCTCCCCGCCTACCGCAAGTTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAGGTACCCAGTGC
TTCCAAGTGCACAGACTTCAGAGCCGCCGCTCCACATCATGTTCCAGACCGAGGCTGGGGAGCTGCAGTTTGC
CCACACGGTGAACGCCACCGCCTGTGCTGTCCCCGCTTCTCATCGCGCTCCTGGAGAGTAACCAGCAGAAGGA
CGGCTCAGTGCTCGTGCCCCCTGCCCTCCAGTCTACCTCGGCACTGATCGGATCACAGCCCTACCCACGTGCC
TCTCCAGTACATCGGCCCCAACCAGCCCCGGAAGCCTGGGCTGCCTGGCCAGCCTGCTGTAAGCTAAGAACCCAC
CCACAGCAGCCCTCGGGGGTGTCACTGCTTCTGGAGTTTCAGGAGACCCCGGACACCTGGGACCTGTGTTGCTGA
GCCCCGTCTGACATCTGTGTTCTTCTGTGCTCAGCTCCACGCCCGGGGCCCTGGACCACGGGGTCCACCTCTCCTCT
GTCCTTGCTGCCTCAGAGTCAGTCACTGACCTGTTATCATTTAGGGTCCCAGTGGGAAGCAGGACGTCTGGGCT
TTACGGTTCTAGGGACAGGAGAAGCAGAGGAAGAGGCTTCCATCCCTCCTTCTTCTCCTACAGTGCTGA
GCAAAAAGTCCCAATAAATGGTCAGGACAAAAAAAAAAAAA

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FIGURE 5414

MAASMARRLWPLLTRRGFRPRGGCISNDSPRRSFTTEKRNRLLYEYAREGY S ALPQLDIERFCACPEEAAHALE
LRKGELRSADLPAAIISTWQELRQLQEIQIRSLEEEKAAVTEAVRALLANQDSGEVQQDPKYQGLRARGREIRKELV
HLYPREAQLEEQFY LQALKLPNQTHPDVPVGDESQARVLHVMGDKPVFSFQPRGHLEIGEKLDIIRQKRLSHVSG
HRSYYLRGAGALLQHGLVNFNFKLLRRGFTPMTPDLLRGAVFEGCGMTPNANPSQIYNIDPARFKDLNLAGTA
EVGLAGYFMDHTVAFRDLPVRMVCSSSTCYRAETNTGQEPRGLYRVHHFTKVEMFGVTGPGLEQSSQLLEEFSLQ
MEILTELGLHFRVLDMPQTQELGLPAYRKFDIEAWMPGRGRFGEVTSASNCTDFQSRRLHIMFQTEAGELQFAHTV
NATACAVPRLLIALLESNQQKDGSVLVPPALQSYLGTDRTAPTHVPLQYIGPNQPRKPGLPQPAVS

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FIGURE 5415

AGCTGGATTACAGCGTGTCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCCTGCGTGCGGGCGAGAGTGGTTGGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGTATTTCT
CTTTGATTTAAGCCAGAAAGTCCTGAGAGCGGATCGGGGAGCATTGCGGATCGGTCACTTTTTCTCCTTTCTG
AGTCTCTTATCCCCTACCACAGGGACGGCCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACA
CGTCCCTAACTTGTGGCCAGCTCTGGTTCCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGC
ACCGCCTGGGGCCCCCAAGCGGCCGCTCGGAAGCTGGGCCCCACGGAAGGCCGGCCGAGCTGAAGGGTGTGG
TCCTGTGCACGTTTACCCGCAAGCCGAAGAAAGCCAACTCAGCCAATCGCAAGTGCTGTCGAGTGGGCTCAGCA
CTGGCCGCGAGGCCGCTCTGCTTCATCCCTGGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGG
GCGGCCGCAACCAGGACCTGCCAGGCGTCAAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGA
AGAAGTGAAGGCTGGGGGCACAGTGGGCTGGGCGCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGG
GTCCTCCGATGCTGGCCTTTGCGCCTCTAGAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCTCCTTCCATC
AGGACCACTATTAAGCCATAGGAGTCCTGGGGGTGCAAAGGGTGCCCCCTCTGTCAACACCCTTGGCTCCTGTGTT
TAGAGGGGTGGCCTGAAGGACCTTTTCTGCTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAAT
AAACAGACCCTGGCGCTTGTGATGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5416

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHRLGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS
ANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTVVVRGKYDCGHVQKK

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FIGURE 5417

AGCTGGATTACAGCGTGTCCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCCTGCGTGCGGGCGAGAGTGGTTGGGCCCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGGACGGC
CCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACACGTCCCTAACTTGTGGCCCAGCTCTGGTT
CCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCCTGAACCAGATGCACCGCCTGGGGCCCCCAAGCGGCCGCT
CGGAAGCTGGGCCCCACGGAAGGCCGGCCGCGAGCTGAAGGGTGTGGTCTGTGCACGTTTACCCGCAAGCCGAAG
AAGCCCAACTCAGCCAATCGCAAGTGCTGTGAGTGCGGCTCAGCACTGGCCGCGAGGCCGTCTGCTTCATCCCT
GGGGAGGGCCACACCTGTCAGGAGCACCAGATTGTCCTTGTGGAGGGCGGCCGCACCCAGGACCTGCCAGGCGTC
AAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGAAGAAGTGACGGCTGGGGGCACAGTGGGCT
GGGCGCCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGGGTCCTCCGATGCTGGCCTTTGCGCCTCTA
GAGGCAGCCACTCATGGATTCAAGTCCGGCTCCGCCTCTTCCATCAGGACCACTATTAAGCCATAGGAGTCCTG
GGGTGCAAAGGGTGCCCCCTCTGTCAACACCTTGGCTCCTGTGTTTAGAGGGGTGGCCTGAAGGACCTTTTCTG
CTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAATAAACAGACCCTGGCGCTTGTGATGTAAAA
AAAAAAAAAAAAAAAA

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FIGURE 5418

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHR LGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS
ANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTVVVRGKYDCGHVQKK

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FIGURE 5419

GGGGAGCTTGC GGACAGCTAGGGCATCCCGGCGAGGAGCGCCGCCAGGCCCGGGGCCACAGCCGGGCCTGGCGG
GGGGACC**AT**GGGCGCCTCGGTCTCCAGGGGGCCGGGGCCGCCCGGGTCCCCGCGCCGGAGCCGGAACCCGAAGAGGC
GCTGGACCTGAGCCAACTACCCCCAGAGCTGCTTCTGGTGGTGGTGGAGCCACGTCCCCCGCGCACGCTGCTCGG
GCGCTGCCGCCAAGTGTGCCGGGGCTGGCGAGCCCTGGTGGACGGCCAGGCCCTGTGGCTGCTGATCCTGGCCCG
CGACCACGGCGCCACCGGGCCGCGCGCTGCTGCACCTCGCCCGCAGCTGCCAGTCTCCCGCCCGTAACGCCAGGCC
TTGCCCCCTGGGCGCCTTCTGCGCGCGCAGACCCATCGGACGCAACCTTATTTCGCAACCCCTGCGGCCAAGAAGG
CCTCCGAAAGTGGATGGTGCAACACGGTGGGGACGGCTGGGTGGTGGAGGAAAAACAGGACAACCGTGCCCTGGGGC
CCCTTCTCAGACGTGCTTCGTGACTTCATTACAGCTGGTGTGCAAGAAGCAGGTCTTGGACCTAGAGGAGGAGGG
TCTGTGGCCAGAACTGCTGGATAGTGGCAGGATTGAGATTTGTGTCTCTGACTGGTGGGGAGCCCCGACACGACAG
CGGCTGTATGTACAGACTCCTCGTCCAACCTTCTAGACGCCAACAGACTGTTCTAGATAAAATTCTCTGCTGTGCC
TGATCCCATCCCGCAGTGGAACAACAATGCCTGCCTTACGTACCCACGTGTTCTCCAACATCAAGATGGGCGT
CCGCTTTGTGTCTTTGCAACACCGGGGCCAGGACACACAGTTCTGGGCTGGCCACTATGGAGCCCCGTGTGACCAA
CTCCAGTGTGATCGTCCGAGTCCGTCTGTCT**TAG**TCCAGCACTACCCCTCTTGCAAGACAGCCTGACTGTGCCTT
CCAGGGCCTGGGACCATTGGCTGGGACCCCTCATTAACCAACCAAGCACTTGTACCTCCCTGGCATACTGAGAAT
TCCTGGGTCCAATCAAAGGCCCTGACGGGCCCTGTCTTCAGGTTCTAGAACTACCAGAAGAAGCTTCTTCCATC
TTATCTACCTACTGCAGCTGCTGCTTTGCGGGGGGGCCCTACTGTACTGAGGGGAAACCCACAAGTGAGCATGGG
GGAATGCCCATCCTGGAGAAGAATTCTTGCCCTCCCTCTCTTCTCTCCCAACCAAAACCCCTCCGATCCAGCCC
CAGGCCCCCTCTGTACCATCCCTCCCTCCGCACCACTGACCTCTTGCTCCTGTTGTTTCTGCCACAGGGACTT
CCTTGGTCCCTTCAGGGAAGCCCTCAACTCATCTCTGAACCTAGAACTCATCCTTAGGGCTCAGAGAGTCCCAG
CCCTAAGGGTGTGAACCTCACCTCCTGGGGCTTCCGAGCTACAGGGCTGGGACCAGGTCATGCAGCTGAAAGTCT
ACGTTAAAAAAGTTTGGGCCAGGCACAGTGGCTCATGCCGTGTAATCCAGCACTTTGGGAGGCTGAGGCA
GGCGGATCACCTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATCCA
AAAAATTAGCCGGGCTTGGTGGTGTGCACCTGTAATTCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGA
GCCC GGAGGCAGAGGCTGCAGTGAACCAAGATCATGCCACTGCACTCCAGCCTGGGCAACACAGCGAGACTCCG
TCTCAAAAAGAAAAAGTTTGGATCAGGCAGGGTGGCTCACACCTGTAATCCCTGCACTTTGGGAGGCCAAGGTGG
GAGGATCAGTTGAGCCCCAGAGTTCAAGACCAGCCTGGGCAATGTAGTAAGACCCCATCGCTACAAAAAATACA
AAAGTTAGCCAGGTACAGTAGTACACACCTGTAGTCCAAGCTACTTGGGAGGCTGAAGTGGGAGGATCATTGTG
CCCAGGTTGAGGCTATAGTGAGCCATGATCATACCCTGCACTCCAGCCTGGGTGACAGAGCGAGACCCCTGTCTC
AAAAAAGAAAAAGAAATTTGGAGATGGTTCTGCCACTCTGGTTTCTCTGAAAAACGAGGTAATTCCCTGAGCCC
AACCTGATCCTCAAGGACCTGTAATTGTGTGGTATTTAAATTAATAACATTATTTTATTTTACTTTTTT
TCAAACAGTAAGAATAATATATCAGCAGCATGTATCTGCCAATCATATGTAATAAATTTCTTATTTTGCC

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FIGURE 5420

MGASVSRGRAARVPAPPEPEPEEALDLSQLPPELLLVVLSHVPPRTLLGRCRQVCRGWRALVDGQALWLLILARDH
GATGRALLHLARSCQSPARNARPCPLGRFCARRPIGRNLIRNPCGQEGLRKWMVQHGGDGWVVEENRTTVPGAPS
QTCFVTSFSWCCKKQVLDLEEEGLWPELLDSGRIEICVSDWWGARHDSGCMYRLLVQLLDANQTVLDKFSAPVDP
IPQWNNNACLHVTHVFSNIKMGVRFVSFEHRGQDTQFWAGHYGARVTNSSVIVRVRLS

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[illegible]

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FIGURE 5422

MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACITSIQPGAPKTIVRGSK
GAKDGALTLLLDDEFENMSVTRSNSLRDSSPPPPARARQENGMPPEEPATTARGGPGKAGSRGRFAGHSEAGGGSGD
RRRAGPEKRPKSSREGSGGPQESSRDKRPLSGPDVGTPQPAGLASGAKLAAGRPFNTYPRADTDHPSRGAQGEPH
DVAPNGPSAGGLAIPQSSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACTPAAPAVPGPPGPRSPQREPQRVS
HEQFRAALQLVVDPGDPRSILDNFIKIGEGSTGIVCIATVRSSGKLVAVKKMDLRKQQRRELLFNEVVIMRDYQH
ENVVEMYNSYLVGDELWVMEFLEGGALTDIVTHTRMNEEQIAAVCLAVLQALSVLHAQGVHRDIKSDSILLTH
DGRVKLSDFGFCQAQVSKEVPRRKSILVGTPYWMAPELISRLPYGPEVDIWSLGIMVIEMVDGEPPYFNEPPLKAMK
MIRDNLPPRLKNLHKVSPSLKGFDRLLVRDPAQRATAAELLKHPFLAKAGPPASIVPLMRQNRTR

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FIGURE 5423

AGTTGGTGGAACCGGAGCTTCGAGTCCGTCCCCGGTGCTGCCTGCGCGTTACCTGAGTCTCGCTGGAGCTCTTC
TCGCCCCGCCACCTCATCTCAACCCACTTTCCGCGGGGAGCGGCGCCAAGCTGGGCCTTCTCGGATCAGGCGTC
CCCTGAAGTCGGCACGCCCCCTCTGCGTCCCCCTTCGGTCCCCGCTAGGACCCCGTCCGGGCTGCCGTGCGCTCGTC
GCTATGGCGCCACCATCCAGACCCAGGCCAGCGGGAGGATGGCCACAGGCCCAATTCCCACCGGACTCTGCCT
GAGAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCCCCCTTCGACCCCAAGTTCATC
ACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGAAACAGCACAAACATGACCTC
CTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACCGCATCGACCCCAATGTTCTT
CTAGATCCAGCTGATGAGAACTTTTGGAAGAGGAGATTACGGCCCCCACCAGCTCCAAGAGATCCCAGCAGCAC
GCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACCGTTATGGCATCTCCAATGAG
AAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAATATACAAAGACAGGGATAGC
CAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGCATTACAGCAAACCCCGAGTC
ACACCGGTGGAGGTCAATGCTGTCTTCCAGACTTTAAGATGTGGATCAATCCATGTGCTCAGGTGATCTTTGAC
TCAGACCCAGCCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTCAGGCCATGATTAGGGGCATG
ATGGATGAGGAAGGGAACCAAGTTTGTGGCCTATTTCTTGCCTGTAGAAGAGACGTTGAAGAAACGAAAGCGGGAC
CAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTCGGGAGTACAACCTGGAACGTG
AAGAACAAAGCTAGCAAGGGCTATGAGGAAAACACTTCTTCATCTTCCGAGAGGGTGACGGGGTTTACTACAAT
GAGTTGGAACACAGGGTCCGCCTTAGTAAGCGCCGGGCCAAGGCTGGGGTTCAGTCAGGCACCAACGCCCTGCTT
GTGGTCAAACATCGGGACATGAATGAGAAGGAAGTGAAGCTCAGGAGGCACGGAAGGCCAGCTAGAAAACAC
GAACCGGAGGAGGAAGAGGAAGAGGAGATGGAGACAGAAGAGAAAGAAGCTGGGGGCTCAGATGAGGAGCAGGAG
AAGGGCAGCAGCAGTGAGAAGGAGGGCAGTGAAGATGAGCACTCGGGCAGCGAGAGTGAACGGGAGGAAGGTGAC
AGGGACGAGGCCAGTGACAAGAGTGGCAGTGGTGAAGACGAGAGCAAGGAGGATGAGGCCCGGGCTGCCCGTGAC
AAAGAGGAGATCTTTGGCAGTGATGCTGATTCTGAGGACGATGCCGACTCTGATGATGAGGACAGAGGACAGGCC
CAAGGTGGCAGTGACAATGATTCAGACAGCGGCAGCAATGGGGGTGGCCAGCGGAGCCGGAGCCACAGCCGAGC
GCCAGTCCCTTCCCCAGTGGCAGCGAGCACTCGGCCAGGAGGATGGCAGTGAAGCTGCAGCTTCTGATTCCAGT
GAAGCTGATAGTGACAGTGACTGAGTCCCAGGGCATTACGGGCTGGTTCAGACACCATTATTGTGAGCAGCAAAG
CACTTTTCTAGTGGTCTGTTTGTGAGCCTTTCACCTGTTTGTTCGCCACCCCAACCTTGTGTTAATAAAGT
CAACTTCTCTTTA

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FIGURE 5424

MAPTIQTQAQREDGHRPNSHRTLPERSGVVCrvKYCNSLPDIPFDPKFITYPFDQNRVQYKATSLEKQHKHDL
TEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEEIQAPTSSKRSQQHAKVVPWMRKTEYISTEFNRYGISNEK
PEVKIGVSVKQQFTEEEIYKDRDSQITAIEKTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKMWINPCAQVIFDS
DPAPKDTSGAAALEMMSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRQDEEEMDYAPDDVYDYKIAREYNWNVK
NKASKGYEENYFFIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKELEAQEARKAQLNHE
PEEEEEEMETEEKEAGGSDEEQEGSSSEKEGSEDEHSGSESEREEGDRDEASDKSGSGEDESEDEARAARDK
EEIFGSDADSEDDADSDDEDRGQAQGGSDNDSDSGSGNGGQSRSHSRSPFPSPGSEHSAQEDGSEAAASDSSE
ADSDSD

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FIGURE 5425

AGGCCCAGCGGGAGGATGGCCACAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCC
CCTTCGACCCCAAGTTCATCACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGA
AACAGCACAAACATGACCTCCTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACC
GCATCGACCCCAATGTTCTTCTAGATCCAGCTGATGAGAACTTTTGGAAAGAGGAGATTCAGGCCCCCACCAGCT
CCAAGAGATCCCAGCAGCACGCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACC
GTTATGGCATCTCCAATGAGAAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAA
TATACAAAGACAGGGATAGCCAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCCAGAAATCAATCTCACAGC
ATTACAGCAAACCCCGAGTCACACCGGTGGAGGTCATGCCTGTCTTCCCAGACTTTAAGATGTGGATCAATCCAT
GTGCTCAGGTGATCTTTGACTCAGACCCAGCCCCAAGGACACGAGTGGTGACGCTGCGTTGGAGATGATGTCTC
AGGCCATGATTAGGGGCATGATGGATGAGGAAGGGAACCAAGTTTGTGGCCTATTTCTGCTGTAGAAGAGACGT
TGAAGAAACGAAAGCGGGACCAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTC
GGGAGTACAAC TGGAACGTGAAGAACAAAGCTAGCAAGGGCTATGAGGAAAATAATACTTCATCTTC

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FIGURE 5426

TTTTCCGGTTGCGGCGCCGCGCGGTGAGGTTGTCTAGTCCACGCTCGGAGCCATGCCGTCCAAGGGCCCGCTGCA
GTCTGTGCAGGTCTTCGGACGCAAGAAGACAGCGACAGCTGTGGCGCACTGCAAAACGCGGCAATGGTCTCATCAA
GGTGAACGGGCGGCCCCCTGGAGATGATTGAGCCGCGCACGCTACAGTACAAGCTGCTGGAGCCAGTTCTGCTTCT
CGGCAAGGAGCGATTTGCTGGTGTAGACATCCGTGTCCGTGTAAAGGGTGGTGGTCACGTGGCCCAGATTTATGC
TATCCGTCAGTCCATCTCCAAAGCCCTGGTGGCCTATTACCAGAAATATGTGGATGAGGCTTCCAAGAAGGAGAT
CAAAGACATCCTCATCCAGTATGACCGGACCCTGCTGGTAGCTGACCCTCGTCGCTGCGAGTCCAAAAAGTTTGG
AGGCCCTGGTGCCCGCGCTCGCTACCAGAAATCCTACCGATAAGCCCATCGTGACTCAAAACTCACTTGTATAAT
AAACAGTTTTTGAGGGATTTTAAAGTTTCAAAAAAAAAAAAAAAAAA

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FIGURE 5427

MPSKGPLQSVQVFGRKKTATAVAHCKRGNGLIKVNGRPLEMIEPRTLQYKLLEPVLLL GKERFAGVDIRVRVKGG
GHVAQIYAIRQSISKALVAYYQKYVDEASKKEIKDILIQYDRTLLVADPRRCESKKFGGPGARARYQKSyr

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FIGURE 5428A

AGAGAACAGATTTCGGAAGCTGGGGAGGTCTAGCATGTGGCGTAGGAGGGGGTCTCACTCCGCTTCGCGATTGCC
AAAACGAGCCTGCCGGAAGCGCCCTAAGGGGTTTTCTTCTCCCAGGGAACAGCGGGGAACTGAGGCTCGGGGT
GGAGCGCAGGATTGTGGGACGCGCCAAGACTGCTGTCTTTCCCAGCAGCAGCGGAAGATGTCGGACAGCGAGGAC
AGCAACTTTTCCGAGGAGGAGGACAGCGAGCGCAGCAGTGACGGCGAGGAGGCCGAGGTAGACGAAGAGCGGGCGG
AGTGCAGCGGGCAGTGAGAAAGAAGAAGAGCCTGAGGACGAAGAGGAGGAGGAAGAGGAGGAGGAATATGATGAG
GAAGAGGAGGAAGAAGATGATGACCGACCCCCCAAGAAACCCCGCCATGGAGGCTTCATTCTGGACGAGGCTGAT
GTTGACGATGAGTATGAGGACGAGGACCAGTGGGAGGATGGAGCAGAGGACATTCTAGAGAAAGAAGAGATTGAA
GCCTCCAATATCGATAATGTTGTCTGGATGAAGATCGTTCTGGGGCTCGCCGCTGCAAAACCTCTGGAGGGAC
CAGCGAGAAGAAGAACTGGGCGAGTATTACATGAAGAAATACGCCAAGTCATCTGTGGGAGAGACGGTGTATGGA
GGATCTGATGAGCTCTCAGACGACATCACCCAGCAGCAGCTGCTCCCAGGAGTCAAGGATCCCAATCTGTGGACT
GTCAAATGTAAGATTGGGGAGGAACGGGGCCACGGCCATTTCCTTGATGCGCAAGTTTCATTGCCTACCAAGTTCACA
GACACGCCCCCTGCAGATCAAGTCAGTAGTGGCACCAGAGCATGTGAAGGGCTACATCTACGTGGAGGCCCTACAAG
CAGACCCACGTGAAGCAGGCCATTGAGGGGGTGGGCAACCTGCGGCTTGCTACTGGAACCAGCAGATGGTGCCC
ATCAAGGAGATGACAGACGTGCTCAAAGTGGTGAAGGAGGTGGCCAACCTGAAACCAAAGTCTGGGTCCGCCTC
AAGCGGGGCATCTACAAGGATGACATTGCTCAGGTGGACTACGTGGAGCCCAGCCAGAACACCATCTCCCTGAAG
ATGATCCCACGCATCGACTACGATCGCATCAAGGCCCGCATGAGCTTGAAAGACTGGTTTGCCAAAAGGAAGAAG
TTTAAGCGGCTCCACAGAGGCTGTTTGATGCTGAGAAGATCAGGTCCCTGGGGGGTGATGTTGCCTCTGATGGT
GACTTCTCATCTTTGAGGGGAACCGTTACAGCCGGAAGGGCTTTCTGTTCAAGAGCTTCGCCATGTCTGCTGTG
ATCACGGAGGGTGTGAAGCCAACACTCTCTGAGCTGGAAAAGTTTGAGGACCAGCCAGAGGGCATTGACCTGGAG
GTGGTGACTGAGAGCACAGGGAAGGAGCGGGAGCACAACCTTCCAACCTGGGGACAACGTGGAGGTCTGTGAGGGT
GAGCTCATCAACCTGCAGGGCAAGATCCTCAGCGTGGATGGCAACAAGATCACCATCATGCCAAGCATGAGGAC
CTCAAGGACATGTTGGAGTTCCAGGCCAGGAACCTTAGAAAATACTTCAAGATGGGGGACCAGTGAAGGTGATT
GCTGGCCGATTTCGAGGGCGACACAGGCCTCATTGTGCGGGTGGAGGAGAATTCGTTATCCTGTCTCTGACCTC
ACCATGCATGAGCTGAAGGTGCTCCCCCGGGACCTGCAGCTCTGCTCAGAGACAGCATCAGGTGTGGATGTTGGG
GGCCAGCATGAATGGGGCGAGCTGGTGCAGCTGGATCCCCAGACTGTGGGTGTCATCGTGCGACTAGAACGGGAG
ACCTTCCAGGTGCTGAACATGTACGGGAAGGTGGTGACTGTGACACATCAGGCTGTGACCCGGAAGAAGGACAAC
CGCTTTGCTGTGGCCTTGACTCAGAGCAGAACAACATCCATGTGAAAGACATCGTTAAGGTTCATTGATGGCCCC
CACTCAGGCCGAGAAGGGGAGATTGCCATCTCTTCCGAAGCTTCGCCCTTCTTACATTGCAAGAACTGGTGGAG
AACGGGGGCATGTTTGTCTGCAAGACCCGCCACCTGGTGCTGGCTGGGGGCTCAAAGCCCCGTGATGTGACCAAC
TTCACCGTGGGTGGCTTTGCGCCTATGAGTCCCCGGATCAGCAGCCCCATGCACCCAGTGCTGGAGGTCAGCGT
GGCGGCTTTGGTAGCCAGGTGGCGGCAGTGGTGGCATGAGCAGGGGCCGGGGCCGGAGGGACAACGAACCTCATC
GGCCAGACCGTGCGCATCTCCCAGGGGCCCTACAAAGGCTACATCGGTGTGGTGAAGATGCCACAGAGTCCACG
GCCCCGTGTGGAGCTGCACTCCACCTGCCAGACCATCTCTGTGGACCGTCAGCGGCTCACCACGGTGGGCTCACGG
CGCCCCGGGCGCATGACCTCGACCTATGGGAGGACGCCCCATGTATGGCTCCCAGACGCCCATGTATGGCTCTGGC
TCCCGAACACCCATGTACGGCTCACAGACACCCCTCCAGGATGGTAGCCGCACCCACACTACGGCTCACAGACG
CCCCTGCATGATGGCAGCCGCACTCTGCCAGAGTGGGGCTGGGACCCCAACAACCCCAACACGCCGTACAGG
GCTGAGGAAGAATATGAGTATGCTTTGATGATGAGCCACCCCGTCCCCGCAGGCCATGGGGGAACCCCCAAT
CCCCAACAACCTGGCTACCCAGACCCCTCGTCCCCACAGGTCAACCCACAATACAACCCGCAGACGCCAGGGACG
CCGGCCATGTACAACACAGACCAAGTTCTCTCCCTATGCTGCCCCCTCCCCACAAGGTTCTTACCAGCCCAGCCCC
AGCCCCAGAGCTACCACCAGGTGGCGCCAAGCCAGCAGGCTACCAGAATACCCACTCCCCAGCCAGCTACCAC
CCTACACCGTCGCCCCATGGCCTATCAGGCTAGCCCCAGCCGAGCCCCGTTGGCTACAGTCTATGACACCTGGA
GCTCCCTCCCCTGGTGGCTACAACCCACACAGCCAGGCTCAGGCATCGAGCAGAACTCCAGCGACTGGGTAACC
ACTGACATTAGGTGAAGGTGCGGGACACCTACCTGGATACACAGGTGGTGGGACAGACAGGTGTCATCCGCAGT
GTCACGGGGGGCATGTGCTCTGTGTACCTGAAGGACAGTGAGAAGGTTGTCAGCATTTCAGTGAGCACCTGGAG
CCTATCACCCCCACCAAGAACAACAAGGTGAAAGTGATCCTGGGCGAGGATCGGGAAGCCACGGGCGTCTACTG
AGCATTGATGGTGAGGATGGCATTGTCCGTATGGACCTTGATGAGCAGCTCAAGATCCTCAACCTCCGCTTCCTG
GGGAAGCTCCTGGAAGCCTGAAGCAGGACGGGCGGTGGACTTCGTGCGATGAAGAGTGATCCTCCTTCTCTCCC
TGGCCCTTGGCTGTGACACAAGATCCTCCTGCAGGGCTAGGCGGATTGTTCTGGATTTCCTTTTGTCTTCTCTT

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FIGURE 5428B

TAGTTTTCCATCTTTTCCCTCCCTGGTGCTCATTGGAATCTGAGTAGAGTCTGGGGGAGGGTCCCCACCTTCCTG
TACCTCCTCCCCACAGCTTGCTTTTGTTGTACCGTCTTCAATAAAAAGAAGCTGTTTGGTCTAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 5429

MSDSEDSNFSEEDSERSSDGEEAEVDEERRSAAGSEKEEPEDEEEEEEEEEEEYDEEEEEEDDDRPPKKPRHGGF
ILDEADVDDYEDEDQWEDGAEDILEKEEIEASNIDNVLDDEDRSGARRLQNLWRDQREEELGEYYMKKYAKSSV
GETVYGGSDDELSDDITQQQLLPGVKDPNLWTVKCKIGEERATAISLMRKFIA YQFTDTPLOIKSVVAPEHVKG YI
YVEAYKQTHVKQAIEGVGNLRLGYWNQQMVPIKEMTDVLKVVEVANLKP KSWVRLKRG IYKDDIAQVDYVEPSQ
NTISLKMIPRIDYDRIKARMSLKDWFAKRKKFKRPPQRLFDAEKIRSLGGDVASDGD FLIFEGNRYSRKGFLFKS
FAMSAVITEGVKPTLSELEKFEDQPEGIDLEVVTSTGKEREHNFQPGDNVEVCEGELINLQGKILSVDGNKITI
MPKHEDLKDMLFPAQELRKYFKMGDHVKVIAGRFE GDTGLIVRVEENFVILFSDLTMHELKVLPRDLQLCSETA
SGVDVGGQHEWGELVQLDPQTVGVIVRLERETFQVLNMYGKVVTVRHQAVTRKKDNRFVAALDSEQNNIHVKDIV
KVIDGPHSGREGEIRHLFRSFAFLHCKKLVENGGMFVCKTRHLVLAGGSKPRDVTNFTVGGFAPMSPRISSPMHP
SAGGQRGGFSGSPGGSGGMSRGRGRRDNELIGQTVRISQGPYKGYIGVVKDATESTARVELHSTCQTISVDRQRL
TTVGSRRPGGMTSTYGRTPMYGSQTPMYGSGSRTPMYGSQTPLODGSRTPHYGSQTPLDHGSRTPAQSGAWDPNN
PNTPSRAEEEEYAFDDEPTPSPQAYGGTPNPQTPGYDPDPSSPQVNPQYNPQTPGTPAMYNTDQFSPYAAPSPQG
SYQPSPPSPQSYHQVAPSPAGYQNTHSPASYHPTSPMAYQASPSPPVGYSPMTPGAPSPGGYNPHTPGSGIEQN
SSDWVTTDIQVKVRD TYLDTQVVGQTGVIRSVTGMCSVYLKDSEKVVSISSEHLEPITPTKNNKVKVILGEDRE
ATGVLLSIDGEDGIVRMDLDEQLKILNLRFLGKLLEA

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FIGURE 5430

CTCAGAGGCTGGAGGGATCCTCCGTATGCTGAACGCTGGTCCCCTGGGCCCCCTTTATTTCTTTCTCTATACTTT
GTTTCTGTGTCTTTTTTCTCTTCCAAAGTCTCTCGTTCCACCTAACGAGAAACACCCACAGGTGTGGAGGGGCAAC
CCATCCCTTCAGACAATTGGGAGGTGAGGGCCGATTGCCTTACACGGTGAGACAAGCGGCCCTGACTCGTGACTAT
TTTTTTGGACAAATCAGGCAGCCACTGACTCCCTTCATTATGGCCTCAGCTTTATCTCTGGGCAATAAGTGTGAT
CCCTTCCTTGCCTGCGTCCCTTTGCAGGGGCGGTGGCGCTCTGCAAGGCCCAAGGGGGCGTGGTCCAGATGACTTT
GAATCCCAGTTGTGCCCCCAGGGTCAGCCAGGAGACTAGTCAGAAGCAAACGCGCCTGCGGCAATCCGCCCCGAT
GCCTTTGGTCTCTCTCGGGCTTCCGTCCACCCGCCCTCCCCCGCGTTTCCATTGGCTGTAGCTCCGGCCCCGGGG
CGGGCGAAGAGGGAGCGAGTGGGCGGGGCGCGTGGCGTCAAGATGGCGGCCCTCGGCAGCGGTGTTCTCG
CGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGGTTGGCGACGCCGCCCGCCGGGCCCCA
GATCAGGCCCGAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGGCTCAGAGGGT
CCCAGCTATGCCAAAAAGTTGCGCTCTGGCTTGCTGGGCTGCTTGGAGCTGGTGGGACTGTGAGCGTCTGCTAT
ATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGATGAGTTCGACAAATGATCCAATTCTGGTA
CAGCAGTTGCGCCGGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCCACAGCCCTTGCCCTT
CTCCCAGACCTCTGCAAGAACCGTACTACCAGCCACCTACACGCTCGTTTTGGAGCTCACCGGCGTCTCTTG
CATCCTGAGTGGTCTGCTGGCCACTGGCTGGAGGTTTAAGAAGCGCCAGGCATCGAGACCTTGTTCCAGCAGCTT
GCCCCTTTATATGAAATTGTCTCTTTACGTGAGAGACTGGCATGACTGCGTTTCCACTCATTGATAGTGTGGAC
CCCCATGGCTTCATCTCTTACCGCCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATATT
TCATGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTAT
AACGGCGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTGGATCTGTCTGCCTTCCTCAAG
ACCATTGCACTGAATGGTGTGGAGGACGTGCGAACCCTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGCG
GCTTTCAAACAGCGGCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAAG
CAGAACCTCTTCTTGGCTCCCTCACCAGCCGCTTGTGGCTCGCTCCAAACAGCCCTGAACTCTGGGCCTCCTC
AAACTCAGTGCCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTTCCAATAAAGTACA
TCCCAGACGCCACACCTGCTGTGTCCCGAGAGTCTCCAGATGGGGGCATCAGGGTGAGGTCCGGGACTCTTGGGT
CATCGTCCACAGTGGCTGATCGGCTGCCAAGCACAGTGGGGTGCTTTGTTGGATCAGAGCAGATTTTCAACC
TGGTCTCGGAATCTAAAAACCCTCGCTGTGTCTTCTGTGTGTTGCGTGATCTGTGAAAAATACATCTCCCTCTG
ACCACAGACTCCTCATCTGTGGAGAAGGGAAGAGAGGATGGCACTTGGCTTTAAAGACAGGTAGCTGCCAGGCTA
CTGTGGAGAGAATGTGTTATGGGCCTAGTGGGCCTCTGGTGGACCAGAGATTACCCCTCTCAACAGGCCAGCTGC
TGGTTGGCTCCAGCCAGTGTGGCCCTGGGGTAAAGGGGGCCTGGAGTTGCTTGACACGCCAGTTGTTCAA

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FIGURE 5431

MASALS LGNKCDPFLRCVLCRGGGALQGPRGRGPDDFESQLSPPGSARRLVRSKRACGNPPDAFGLSRASVHPPL
PRVSI GCSSGPGRKRERVGGAAWRQRKMAASAAVFSRLRSGRLGSRGLCTRLATPPRRAPDQAAEIGSRGSTK
AQGPQQPGSEGPSYAKKVALWLAGLLGAGGTVSVVYIFGNNPVDENGAKIPDEFDNDPILVQQLRRTYKYFKDY
RQMIIEPTSPCLLPDPLQEPYYQPPYTLVLELTGVLLHPEWSLATGWRFKRPGIETLFQQLAPLYEIVIFTSET
GMTAFPLIDSVDPHGFISYRLFRDATRYMDGHHVKDISCLNRDPARVVVDCKKEAFRLQPYNGVALRPWDGNSD
DRVLLDLSAFLKTIALNGVEDVRTVLEHYALEDDPLAAFKQRQSRLEQEEQQLAELSKSNKQNLFLGSLTSRLW
PRSKQP

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FIGURE 5432

GAAGGCCATGGTCTCCCCACGGATGTCCGGGCTCCTCTCCCAGACTGTGATCCTAGCGCTCATTTCCTCCCCCA
GACACGGCCCCGTGGCGTCTTCGAGCTGCAGATCCACTCTTTCGGGCCGGGTCCAGGCCCTGGGGCCCCGCGGTC
CCCCTGACGCGCCCGGCTCCCCTGCCGCTCTTCTTCAGAGTCTGCCTGAAGCCTGGGCTCTCAGAGGAGGCCGC
CGAGTCCCCGTGCGCCCTGGGCGCGGCGCTGAGTGCGCGCGGACCGGTCTACACCGAGCAGCCCGGAGCGCCCCGC
GCCTGATCTCCCACTGCCCCACGGGCTCTTGCAAGTGCCCTTCCGGGACGCCTGGCCTGGCACCTTCTCTTTCAT
CATCGAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCGCTGGAGCCTGCTGGCGCGCGTGGCTGG
CAGGCGGCGCTTGGCAGCCGGAGGCCCGTGGGCCCGGGACATTAGCGCGCAGGCGCCTGGGAGCTGCGCTTCTC
GTACCGCGCGCGCTGCGAGCCGCTGCCGTGCGGACCGCGTGACGCGCCTCTGCCGTCCGCGCAGCGCCCCCTC
GCGGTGCGGTCCGGGACTGCGCCCCTGCGCACCGCTCGAGGACGAATGTGAGGCGCCGCTGGTGTGCCGAGCAGG
CTGCAGCCCTGAGCATGGCTTCTGTGAACAGCCCGGTGAATGCCGATGCCTAGAGGGCTGGACTGGACCCCTCTG
CACGGTCCCTGTCTCCACCAGCAGTGCCTCAGCCCCAGGGGCCCGTCTCTGCTACCAACGGATGCCTTGTCCC
TGGGCTTGGGCCCTGTGACGGGAACCCGTGTGCCAATGGAGGCAGCTGTAGTGAGACACCCAGGTCTTTGAATG
CACCTGCCCGCGTGGGTTCTACGGGCTGCGGTGTGAGGTGAGCGGGGTGACATGTGCAGATGGACCCTGCTTCAA
CGGCGGCTTGTGTGTCGGGGGTGCAGACCCTGACTCTGCCTACATCTGCCACTGCCCACCTGGTTTCCAAGGCTC
CAACTGTGAGAAGAGGGTGGACCGGTGCAGCCTGCAGCCATGCCGCAATGGCGGACTCTGCCTGGACCTGGGCCA
CGCCCTGCGCTGCCGCTGCCGCGCCGGCTTCGCGGGTCTCTGCTGCGAGCACGACCTGGACGACTGCGCGGGCCG
CGCTGCGCTAACGGCGGCACGTGTGTGGAGGGCGGCGGCGCGCACCGCTGCTCCTGCGCGCTGGGCTTCGGCGG
CCGCGACTGCCGCGAGCGCGGACCCGTGCGCCGCGCGCCCCCTGTGCTCACGGCGGCGCGCTGCTACGCCCACTT
CTCCGGCTCTGCTGCGCTTGGCTTCCCGCTACATGGGAGCGCGGTGTGAGTTCCAGTGCACCCCGACGGCGC
AAGCGCCTTGCCCGCGCCCCCGCGGCCCTCAGGCCCGGGGACCCCTCAGCGCTACCTTTTGCTTCCGGCTCTGGG
ACTGCTCGTGGCCGCGGGCTGGCCGGCGCTGCGCTCTTGTGCTGCCACGTGCGCCGCGCTGGCCACTCCCAGGA
TGCTGGGTCTCGCTTGGTGGCTGGGACCCCGGAGCCGTGAGTCCACGCACTCCCGGATGCACTCAACAACCTAAG
GACGCAGGAGGGTTCCGGGGATGGTCCGAGCTCGTCCGTAGATTGGAATCGCCCTGAAGATGTAGACCTCAAGG
GATTTATGTCATATCTGCTCCTTCCATCTACGCTCGGGAGGTAGCGACGCCCCCTTTTCCCCCGCTACACACTGG
GCGCGCTGGGCAGAGGCAGCACCTGCTTTTTCCCTACCCCTCCTCGATTCTGTCCGTGAAATGAATTGGGTAGAG
TCTCTGGAAGTTTTTAAGCCATTTTCAGTTCTAACTTACTTTCACTCTATTTTGATCCCTCTTATCGTTTTGA
GCTACCTGCCATCTTCTCTT

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FIGURE 5433

MVSPRMSGLLSQTIVILALIFLPQTRPAGVFELQIHSFGPGPGGAPRSPCSARLPCRLFFRVCLKPGLSEEAES
PCALGAALSARGPVYTEQPGAPAPDLFLPDGLLQVFFRDAWPGTFSFIIETWREELGDQIGGPAWSLLARVAGRR
RLAAGGPWARDIQRAGAWELRFSYRARCEPPAVGTACTRLCRPRSAPSRGPGRLPCAPLEDECEAPLVCRA GCS
PEHGFCEQPGECRCLEGWTGPLCTVPVSTSSCLSPRGPSATTGCLVPGPGPCDGNPCANGGSCSETPRSFECTC
PRGFYGLRCEVSGVTCADGPCFNGLCVGGADPD SAYICHCPPGFQGSNCEKRVDRCSLQPCRNGGLCLDLGHAL
RCRCRAGFAGPRCEHDLDDCAGRACANGGTCVEGGGAHRCSCALGFGRDCRERADPCAARPCA HGGRCYAHFSG
LVCACAPGYMGARCEFPVHPDGASALPAAPPGLRPGDPQRYLLP PALGLLVAAGVAGAALLLVHVRRRGHSQDAG
SRLLAGTPEPSVHALPDALNNLRTQEGSGDGPSSSV DWNRPEDVDPQGIYVISAPSIYAREVATPLFPPLHTGRA
GQRQHLLFPYPSSILSVK

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FIGURE 5434

GGGATGGGGGCGGAGTCCAGGGCGTGGGGGGGCGCGTGTGTTGTGGTCCCATTTTGCTGGTTGCATTACTGGGT
AATCGGGGGCCCTGGCTTGCCGCGTCCGCCGGATACCCCTCAGCCAGTGGGCAGGTCTGAGCTCGGGCTCCCCGAGC
AGTTTGGAGTCCCCCTTGCCGCTCCTTCAGGTCTCAGCGGCGGTGGCAGCCGAGGTGCAGGATGCAAGAAGGCGCC
CCCCGGCCGGGCTCCCGCTCCAGGCCTCGCTCCCCCTGCGGCCCTCTGAGCCCACCAATGGCCGCTCCACCAGGGCCA
TGGTCCCTTCTCTGGCTTCCAGGGCCCCAGGAGCACACGCAGGTATTGCTGATGTGCGGCTACTGCCCTCGGAG
GCTGCCCCCTGGCCTTCCGGGATGCAACCTCAGCCCCGCTGCGTAAGCTCTCTGTGGACCTCATCAAGACCTACAA
GCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGCGGGGCCAGCAGGCCACCCCCAGGATTCGAGCAACAA
GAAGGAGAAGAAGGTCCTGAACCATGGTTATGATGACGACAACCATGACTACATCGTGCGCAGTGGCGAGCGCTG
GCTGGAGCGCTACGAAATTGACTCGCTCATTGGCAAAGGCTCCTTTGGCCAGGTGGTGAAAGCCTATGATCATCA
GACCCAGGAGCTTGTGGCCATCAAGATCATCAAGAACAAAAAGGCTTTCTGAACCAGGCCAGATTGAGCTGCG
GCTGCTGGAGCTGATGAACAGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACTTCATGTT
CCGGAACACCTGTGCCTGGTATTTGAGCTGCTGTCTTACAACCTGTACGACCTCCTGCGCAACACCCACTTCCG
CGGCGTCTCGCTGAACCTGACCCGGAAGCTGGCGCAGCAGCTCTGCACGGCACTGCTCTTTCTGGCCACGCCTGA
GCTCAGCATATTCACTGCGACCTCAAGCCCGAAAACATCTTGCTGTGCAACCCCAAGCGCAGCGCCATCAAGAT
TGTGGACTTCGGCAGCTCCTGCCAGCTTGGCCAGAGGATCTACCAGTATATCCAGAGCCGCTTCTACCGCTCACC
TGAGGTGCTCCTGGGCACACCCCTACGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTTGTGGAGATGCA
CACCGGAGAGCCCTCTTCAGTGGCTCCAATGAGGTGACCCAGATGAACCGCATTGTGGAGGTGCTGGGCATCCC
ACCGGCCGCCATGCTGGACCAGGCGCCCAAGGCTCGCAAGTACTTTGAACGGCTGCCTGGGGGTGGCTGGACCT
ACGAAGGACGAAAGAACTCAGGAAGGATTACCAGGGCCCCGGGACACGGCGGCTGCAGGAGGTGCTGGGCGTGCA
GACGGGCGGGCCCGGGGCGGCGGGGAGCCGGGCCACAGCCCCGCGGACTACCTCCGCTTCCAGGACCT
GGTGTGCGCATGCTGGAGTATGAGCCCGCCGCCCGCATCAGCCCCCTGGGGGCTCTGCAGCACGGCTTCTTCCG
CCGCACGGCCGACGAGGCCACCAACACGGGCCCGGCAGGCAGCAGTGCTCCACCTCGCCCGCGCCCCCTCGACAC
CTGCCCCCTCTTCCAGCACCGCCAGCTCCATCTCCAGTTCTGGAGGCTCCAGTGGCTCCTCCAGTGACAACCGGAC
CTACCGCTACAGCAACCGATATTGTGGGGGCCCTGGGCCCCCTATCACAGACTGTGAGATGAACAGCCCCCAGGT
CCCACCTCCAGCCGCTGCGGCCCTGGGCAGGGGTGATGTGCCCCACAAGACACATCAAGCCCCCTGCCTCTGC
CTCGTCACTGCCTGGGACCGGGGCCAGTTACCCCCCAGCCCCGATACCTTGGTCGTCCCCCATCACCAACCTC
ACCACACCCCCGAGCTGATGGATGTGAGCCTGGTGGCGGCCCTGCTGACTGCTCCCCACCTCACCCAGCGCC
TGCCCCCAGCACCCGGCTGCCTCAGCCCTCCGGACTCGGATGACTGGAGGTGCTCCACCCCTCCCGCCTCCTGA
TGACCTGCCACTCTGGGGCCTCACCTGGGCCTCCGTGGTGTACCCCAGAGCACAGCAGCCAGCTCGTGACCCTG
CCCCCTCCCTGGGGCCCCCTCCTGAAGCCATACCCTCCCCCATCTGGGGGCCCTGGGCTCCCATCCTCATCTCTCT
CCTTGACTGGAATTGCTGCTACCCAGCTGGGGTGGGTGAGGCCTGCACTGATTGGGGCCTGGGGCAGGGGGGTCA
AGGAGAGGGTTTTTGGCCGCTCCCTCCCCACTAAGGACTGGACCCTTGGGGCCCTCTCCCCCTTTTTTCTATTTA
TTGTACCAAAGACAGTGGTGGTCCGTTGGAGGGAAGACCCCCCTCACCCAGGACCTAGGAGGGGTGGGGC
AGGTAGGGGGAGATGGCCTTGCTCCTCCTCGCTGTACCCCCAGTAAAGAGCTTTCTCACAAAAA

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FIGURE 5435

MAVPPGHGPFSGFPGPQEHTQVLPDVRLLPRLPLAFRDATSAPLRKLSVDLIKTYKHINEVYYAKKKRRAQQAP
PQDSSNKKEKKVLNHGYDDDNHDYIVRSGERWLERYEIDSLIGKGSFGQVVKAYDHQTQELVAIKI IKNKKAFLN
QAQIELRLLELMNQHDTEMKYYIVHLKRHFMRNHLCLVFELLSYNLYDLLRNTHFRGVSLNLTRKLAQQQLCTAL
LFLATPELSIIHCDLKPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYRSPEVLLGTPYDLAIDMWSLG
CILVEMHTGEPLFSGSNEVDQMNRIVEVLGIPPAAMLDQAPKARKYFERLPGGGWTLLRRTKELRKDYQGPGRRL
QEV LGVQTGGPGGRRAGEPGHSPADYLRFDLVLRMLEYEPAAARISPLGALQHGFRRTADEATNTGPAGSSAST
SPAPLDTCPPSSSTASSISSGGSSGSSSDNRTYRYSNRYCGGPGPPITDCEMNSPQVPPSQPLRPWAGGDVPHKT
HQAPASASSLPGTGAQLPPQPRYLGRPPSPTSPPPPELMDVSLVGGPADCSPPHPAPAPQHPAASALRTRMTGGR
PPLPPDDPATLGPHLGRLGV PQSTAASS

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FIGURE 5436

GGATCCGGCAACGAAGGTACCATGGCCGGACTCCGGAGCCGCACAAACCAGGGCTCGCCATGAAGCCAGGATTCA
GTCCCCGTGGGGGTGGCTTTGGCGGCCGAGGGGGCTTTGGTGACCGTGGTGGTCGTGGAGGCCGAGGGGGCTTTG
GCGGGGGCCGAGGTCGAGGCGGAGGCTTTAGAGGTCGTGGACGAGGAGGAGGTGGAGGCCGCGCGCGCGGTGGAG
GAGGAGGAAGAGGTGGTGGAGGCTTCCATTCTGGTGGCAACCGGGGTCGTGGTCGGGGAGGAAAAAGAGGAAACC
AGTCGGGGAAGAATGTGATGGTGGAGCCGCATCGGCATGAGGGTGTCTTCATTTGTGAGGAAAGGAAGATGCAC
TGGTCACCAAGAACCTGGTCCCTGGGGAATCAGTTTATGGAGAGAAGAGAGTCTCGATTTCGGAAGGAGATGACA
AAATTGAGTACCGAGCCTGGAACCCCTTCCGCTCCAAGCTAGCAGCAGCAATCCTGGGTGGTGTGGACCAGATCC
ACATCAAACCGGGGGCTAAGGTTCTCTACCTCGGGGCTGCCTCGGGCACCACGGTCTCCCATGTCTCTGACATCG
TTGGTCCGGATGGTCTAGTCTATGCAGTCGAGTTCTCCACCGCTCTGGCCGTGACCTCATTAACTTGGCCAAGA
AGAGGACCAACATCATTCCCTGTGATCGAGGATGCTCGACACCCACACAAATACCGCATGCTCATCGCAATGGTGG
ATGTGATCTTTGCTGATGTGGCCAGCCAGACCAGACCCGGATTGTGGCCCTGAATGCCACACCTTCCTGCGTA
ATGGAGGACACTTTGTGATTTCCATTAAAGGCCAACTGCATTGACTCCACAGCCTCAGCCGAGGCCGTGTTTGCCT
CCGAAGTGAAAAAGATGCAACAGGAGAACATGAAGCCGAGGAGCAGTTGACCCTTGAGCCATATGAAAGAGACC
ATGCCGTGGTCGTGGGAGTGACAGGCCACCCCCAAGGTGAAGAACTTGAAGTTTACGCGCTGTTCAGGATTGCGAG
AGATGIGTGTTGATACTGTTGCACGTGTGTTTTTCTATTAAAGACTCATCCGTCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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[illegible]

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FIGURE 5438

CAACGGGGGCATCCACTACATCACCCCTTGATGGCCGTGTCTACGACCTGCATGGCTCCTGCTCCTATGTCTTGGC
CCAAGTCTGCCACCCAAAGCCTGGGGACGAGGACTTTTCCATCGTGCTTGAGAAGAATGCAGCTGGAGATCTCCA
ACGCCTCCTGGTTACTGTGGCTGGCCAGGTTGTGAGCCTAGCTCAGGGGCAGCAGGTCACCGTGGACGGCGAGGC
TGTGGCCCTGCCTGTGGCTGTGGGCCGCGTGCGGGTGACCGCCGAGGGCCGAAACATGGTTCTGCAGACGACCAA
GGGGCTGCGGCTTCTCTTTGATGGCGATGCCACCTCCTCATGTCCATCCCCAGCCCCCTCCGTGGACGGCTCTG
TGGCCTCTGTGGAACTTCAATGGCAACTGGAGTGACGACTTTGTCTGCCCCAATGGCTCAGCAGCGTCCAGTGT
GGAGACCTTCGGGGCTGCATGGCGGGCGCCCGGCTCCTCCAAGGGCTGTGGCGAGGGCTGCGGGCCCCAAGGCTG
CCCAGTGTGCTTGGCAGAGGAGACTGCACCCTATGAGAGCAACGAGGCTGCGGGCAGCTCCGGAACCCCCAGGG
CCCCCTTCGCGACCTGCCAGGCGGTGCTGAGTCCCTCTGAGTACTTCCGCCAATGCGTATACGACCTGTGCGCGCA
AAAGGGTGACAAAGCCTTCTGTGCCGCAGCCTGGCAGCCTACACGGCGGGCTGTCAGGCAGCTGGCGTGGCCGT
GAAGCCCTGGAGGACAGACAGCTTCTGCCCGCTCCATTGCCCCGCCACAGCCACTACTCCATCTGCACTCGCAC
CTGCCAGGGATCCTGTGCGGCTCTCTCCGGCTCACGGGCTGCACCACCCGCTGTTTTGAGGGCTGTGAGTGCGA
CGACCGCTTCTGTCTTTCCAGGGTGTCTGCATCCCTGTCCAAGATTGTGGCTGCACCCATAATGGCCGATACTT
GCCGGTAAACTCCTCCCTGCTGACCTCAGACTGCAGCGAGCGCTGTTCTGTTCTCAAGCTCTGGCCTGACATG
CCAGGCAGCTGGCTGCCACCCAGGCGGTGTATGTGAGGTCAAGGCTGAAGCCCGGAAGTGTGGGCCACCCGTGG
TCTCTGTGTCTGTCTGTGGGTGCCAACCTCACACCTTTGATGGGGCCCGTGGTGCCACCACCTCTCCTGGTGT
CTATGAGCTCTCTTCCCGCTGCCAGGACTACAGAATACCATCCCCTGGTACCGTGTAGTTGCCGAAGTCCAGAT
CTGCCATGGCAAAACGAGGCTGTGGGCCAGGTCCACATCTTCTTCCAGGATGGGATGGTGACGTTGACTCCAAA
CAAGGGTGTGTGGGTGAATGGTCTCCGAGTGGATCTCCAGCTGAGAAGTTAGCATCTGTGTCCGTGAGTCGTAC
ACCTGATGGCTCCCTGCTAGTCCGCCAGAAGGCAGGGGTCCAGGTGTGGCTTGGAGCCAATGGGAAGGTGGCTGT
GATTGTGAGCAATGACCATGCTGGGAACTGTGTGGGGCTGTGGAACTTTGACGGGGACAGACCAATGATTG
GCATGACTCCCAGGAGAAGCCAGCGATGGAGAAATGGAGAGCGCAGGACTTCTCCCCATGTTATGGCTGATCAGT
CATCCACCAGGAACGAAGATTTCTGAAGAAGACCTGGTCCCTCTGGAGGTTGCAGTGGCTGAAGGATGCATCAT
GTGCTCCTACCTGCTCTACCGCTTTTCTGGGTACAGAGGCCAAATGTGAGAGCATTGAATAAATATCTTAAGC
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FIGURE 5439

GTCAACTTAGTGTACAATGCTGTCAGATGAACCTTACCCTTGTAAGGCTTGTAACCTTGGTTCCCTCCCTTTCTTAA
GCCCTTATTGGCTATCTTTCTTCTTTTAATATTTAAAGTTTTTAATCTTTAAATTTTAAATTTTAAACCATGCT
TGTTTAACTGCTGGTAAAATTCACGTCCTTCAGACTGTAATGCTTTTCATGCCAAGTAAATGGTCTTGCCAGGCT
TCCAGCCTGTTTCAGAGACCACTAGCCCAGAGCCGTATCAGCCCCTTCAGCAAGCCATAAGAAATTTCTACTCCT
CCTGGAAATAGATGTAGAGACTATGTCCATGCTTAGCAGGAAGTAGTTCCAGAAGAGACCTTTGCTCCTTAAGAA
TAAGGAGAATGAGGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAA
CATGTGGAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCAA
TCCTGCCCACCCACCACCTATTAATCCACCCCTTTCCCCCAGGCCCTGTCTCCTCCCCCAGGAGCTCCCCATGG
CAATCCAGCTTTCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGATGCCAACCGTTGGG
TCCCTACCCTCCTCCATACCCACCGCCTGCCCTGGAATCCCTCCTGTGAATCCCTTGGCTCCTGGCATGGTTGG
ACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACCACAAA
GCACCACAAGTACCACAAGCATGACAAGCATTCTCCTCTTCTCCTCCTCTTCCAGCAGTGATTCTGACTGAAT
ACAGGCCCTGGACCCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATGCCACGTTGTACTGG
GGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCTA
GGGGAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTGCTGCTTGGAGAGATCATATAGCTAATGAATTA
GGCAGGGGAGCTATTTTTTGAAGATGATGAACTAAATGTTGAAGACAAGTTTGAGATCTGTAAATGTGATTTTT
TACTTCCACTTATAATACTTGTGATTGGGGAGGTTTGTGGAAATTCAATTATGATGAAAAACCTCTATCTTTTT
GTAATGTTGGCATACTTGGGGGATTTAGTGGCAAATACATTCCCCAGCAGGCCTTTTGTGGTTGCACTAACTGC
AAGGTTGCTGGGAAGTAGAGTCCATTTGGTTGATGAGCTTTGACTGCGGTTTTGGAACCTTACCTCTCCTCCTTA
GCCCAATATGCTGTCTCGGGTCTATTCAAATAAAGTTATTTCTCCTGGTCT

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CGCAAGGAGAAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAACATGTGGAATCCCAATG
CCGGGCAGCCAGGGCCAAATCCATATCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGG
TGCCAACCGTTGGGTCCCTACCCTCCTCCATACCCACCGCCTGCCCTGGAATCCCTCCTGTGAATCCCTTGGCT
CCTGGCATGTTGGACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATG
CACAAGCACCAAAAGCACCAAGTACCACAAGCATGACAAGCATTCCTCCTCTTCCTCCTCCTCTTCCAGCAGT
GATTCTGACTGAATACAGGCCCTGGACCCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATG
CCACGTTGTACTGGGGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCCCTGCTGTTGA
GCCCTGAGTGGCTAGGGGAAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGAGAGATCATA
TAGCTAATGAATTAGGCAGGGGAGCTATTTTTTTGAAGATGATGAACATAAATGTT

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FIGURE 5441

GGCTTGGTCACTATGGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCC
CGGCCCCAGACCGGCCCTGTCTTCCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGAAG
CTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAATACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAA
TTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCATCCCGCTGGTCATCGGACAATTTCTGGAGGCTGTG
GATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCAACCTATTATGTGCGCATCCTGAGCACCATCGATCGG
GAGCTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGCTGCCCCCGAA
GCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGCTCACGCATTTTCGAGCTCTACAAGCAGATCGGCATC
GATCCCCCCCCGAGGCGTCTCATGTATGGCCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGGCGGTGGCACAT
CACACAACAGCTGCATTATCCGGGTCTGTGGGCTCGGAGTTTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATG
GTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAGACGAGATTGATGCCATCGCC
ACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGGTTTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATG
GATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACAAACAGAGCAGACACCCCTGGATCCGGCCCTG
CTACGGCCAGGACGGCTGGACCGTAAATTTGAATTTCCACTTCCTGACCGCCGCCAGAAGAGATTGATTTTCTCC
ACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACTTGGAAGACTATGTGGCCCGGCCAGATAAGATTTCA
GGAGCTGATATCAACTCCATCTGTCAGGAGAGTGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCTGGCC
AAGGACTTCGAGAAAGCATAAAGACTGTCATCAAGAAGGACGAGCAGGAGCATGAGTTTTACAAGTGACCCCTTC
CCTTCCCTCCACCACACCACTCAGGGGCTGGGGCTTCTCTCGCACCCCCAGCACCTCTGTCCCAAAACCTCATTC
CCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAGATAAGATCGAATCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5442

MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDLYSRYKKLQQELEFLEVQEYIKDEQKNLKKEFLHA
QEEVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYYVRILSTIDRELLKPNASVALHKHSNALVDVLPPEADSS
IMMLTSDQKPDVEMYADIGGMDIQKQEVREAVELPLTHFELYKQIGIDPPRGVLMYGPPGCGKTMLAKAVAHHTTA
AFIRVVGSEFVQKYLGEGRMVRDVFR LAKENAPAIIFIDEIDAIATKRFDAQTGADREVQRILLELLNQMDGFD
QNVNVKVI MATNRADTLDPALLRPGR LDRKIEFPLPDRRQKRLIFSTITSKMNLSEEVDLEDYVARPDKISGADI
NSICQESGMLAVRENRYIVLAKDFEKAYKTVIKKDEQEHEFYK

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FIGURE 5443

ACTGTGCCCTGTCCACGGTGCCTCCTGCATGTCCTGCTGCCCTGAGCTGTCCCGAGCTAGGTGACAGCGTACCAC
GCTGCCACCATGAATGAGGTGTCTGTTCATCAAAGAAGGCTGGCTCCACAAGCGTGGTGAATACATCAAGACCTGG
AGGCCACGGTACTTCCTGCTGAAGAGCGACGGCTCCTTCATTGGGTACAAGGAGAGGCCCGAGGCCCTGTATCAG
ACTCTACCCCCCTTAAACAACCTTCTCCGTAGCAGAATGCCAGCTGATGAAGACCGAGAGGCCCGACCCAAACACC
TTTGTTCATACGCTGCCTGCAGTGGACCACAGTCATCGAGAGGACCTTCCACGTGGATTCTCCAGACGAGAGGGAG
GAGTGGATGCGGGCCATCCAGATGGTCGCCAACAGCCTCAAGCAGCGGGCCCCAGGCGAGGACCCCATGGACTAC
AAGTGTGGCTCCCCAGTGACTCCTCCACGACTGAGGAGATGGAAGTGGCGGTGAGCAAGGCACGGGCTAAAGTG
ACCATGAATGACTTCGACTATCTCAAACCTCCTTGGCAAGGGAACCTTTGGCAAAGTCATCCTGGTGCGGGAGAAG
GCCACTGGCCGCTACTACGCCATGAAGATCCTGCGGAAGGAAGTCATCATTGCCAAGGATGAAGTCGCTCACACA
GTCACCGAGAGCCGGGTCTCTCAGAACACCAGGCACCCGTTCTCACTGCGCTGAAGTATGCCTTCCAGACCCAC
GACCGCCTGTGCTTTGTGATGGAGTATGCCAACGGGGGTGAGCTGTTCTTCCACCTGTCCCGGGAGCGTGTCTTC
ACAGAGGAGCGGGCCCGGTTTTATGGTGCAGAGATTGTCTCGGCTCTTGAGTACTTGCACTCGCGGGACGTGGTA
TACCGCGACATCAAGCTGGAAAACCTCATGCTGGACAAAGATGGCCACATCAAGATCACTGACTTTGGCCTCTGC
AAAGAGGGCATCAGTGACGGGGCCACCATGAAAACCTTCTGTGGGACCCCGAGTACCTGGCGCCTGAGGTGCTG
GAGGACAATGACTATGGCCGGGCGGTGGACTGGTGGGGGTGGGTGTGGTCATGTACGAGATGATGTGCGGCCGC
CTGCCCTTCTACAACCAGGACCACGAGCGCCTCTTCGAGCTCATCTCATGGAAGAGATCCGCTTCCCGCGCACG
CTCAGCCCCGAGGCCAAGTCCCTGCTTGCTGGGCTGCTTAAGAAGGACCCCAAGCAGAGGCTTGGTGGGGGGCCC
AGCGATGCCAAGGAGGTGATGGAGCACAGGTTCTTCCTCAGCATCAACTGGCAGGACGTGGTCCAGAAGAAGCTC
CTGCCACCCTTCAAACCTCAGGTACGTCCGAGGTCGACACAAGGTACTTCGATGATGAATTTACCGCCCAGTCC
ATCACAATCACACCCCCTGACCGCTATGACAGCCTGGGCTTACTGGAGCTGGACCAGCGGACCCACTTCCCCCAG
TTCTCCTACTCGGCCAGCATCCGCGAGTGAGCAGTCTGCCACGCAGAGGACGCACGCTCGCTGCCATCACCGCT
GGGTGGTTTTTTCCCCCT

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FIGURE 5444

CTCTTTATAATTTAGTTTCCATAGAAAGTTATATGTGCATTTAAAAAAATTCAATGCTGGAGCGACCGTGTCTGGG
GAGCCGAGCCCCGCTTCTCGCTGCGGTGAGCCCCGACTGGGGCACGCACTGCGCAGACTCCCCGCTGCAGTGGGC
GGAGCTCCACAGGCCCCGCCCCCTCCTCCCAACCTCGTTTCAGCCTGTCCAGACAGAAGCTGGGGCCAGCGGAG
GTAGCAGCAGACGCTGAGAGCGAGGCCGAGGCCCTCAGGGTTTGGAGACCCTGACACACCCACCTTCTCACCT
GGGCTCTGCGTATCCCCAGCCTTGAGGGAAGATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCAG
AGGAGCCCCGCAATGAGCTGCCCATGAATGAGATTGAGGCGTGGAAGGCTGCGGAAAAGAAAGCCCGCTGGGTCC
TGCTGGTCCCTCATTTCTGGCGGTTGTGGGCTTCGGAGCCCTGATGACTCAGCTGTTTCTATGGGAATACGGCGACT
TGCATCTCTTTGGGCCCCAACAGCGCCAGCCCCCTGCTATGACCCTTGCGAAGCAGTGCTGGTGGAAAGCATTTC
CTGAGGGCCTGGACTTCCCCAATGCCTCCACGGGGAACCCCTTCCACCAGCCAGGCCTGGCTGGGCCTGCTCGCCG
GTGCGCACAGCAGCCTGGACATCGCCTCCTTCTACTGGACCCTCACCAACAATGACACCCACACGCAGGAGCCCT
CTGCCCAGCAGGGTGAGGAGGTCTCCGGCAGCTGCAGACCCTGGCACCAAAGGGCGTGAACGTCCGCATCGCTG
TGAGCAAGCCCAGCGGGCCCCAGCCACAGGCGGACCTGCAGGCTCTGCTGCAGAGCGGTGCCAGGTCCGCATGG
TGGACATGCAGAAGCTGACCCATGGCGTCTGCATACCAAGTTCTGGGTGGTGGACCAGACCCACTTCTACCTGG
GCAGTGCCAACATGGACTGGCGTTCACTGACCCAGGTCAAGGAGCTGGGCGTGGTCACTGTACAACCTGCAGCTGCC
TGGCTCGAGACCTGACCAAGATCTTTGAGGCCTACTGGTTCTGGGCCAGGCAGGCAGCTCCATCCCATCAACTT
GGCCCCGGTTCTATGACACCCGCTACAACCAAGAGACACCAATGGAGATCTGCCTCAATGGAACCCCTGCTCTGG
CCTACCTGGCGAGTGCGCCCCACCCCTGTGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGG
TGGACAATGCCCCGAGTTTTCATCTACGTGCTGTGATGAACCTACCTGCCCCTCTGGAGTTCTCCCACCCTCACA
GGTTCGGCCTGCCATTGACGATGGGCTGCGGCGGGCCACCTACGAGCGTGGCGTCAAGGTGCGCCTGCTCATCA
GCTGCTGGGGACACTCGGAGCCATCCATGCGGGCCTTCTGCTCTCTCTGGCTGCCCTGCGTGACAACCATACCC
ACTCTGACATCCAGGTGAAACTCTTTGTGGTCCCCGCGGATGAGGCCAGGCTCGAATCCCATATGCCCGTGTCA
ACCACAACAAGTACATGGTGACTGAACGCGCCACCTACATCGGAACCTCCAAGTGGTCTGGCAACTACTTCACGG
AGACGGCGGGCACCTCGCTGCTGGTGACGCGAGAATGGGAGGGGCGGCCTGCGGAGCCAGCTGGAGGCCATTTTCC
TGAGGGGACTGGGACTCCCCCTTACAGCCATGACCTTGACACCTCAGCTGACAGCGTGGGCAACGCCTGCCGCCTGC
TCTGAGGCCCCGATCCAGTGGGCAGGCCAAGGCCTGCTGGGCCCCCGCGGACCCAGGTGCTCTGGGTACGGTCCC
TGTCCCCGCGCCCCCGCTTCTGTCTGCCCCATTGTGGCTCCTCAGGCTCTCTCCCCTGCTCTCCCACCTCTACCT
CCACCCCCACCGGCCTGACGCTGTGGCCCCGGGACCCAGCAGAGCTGGGGGAGGGATCAGCCCCCAAAGAAATGG
GGGTGCATGCTGGGCCTGGCCCCCTGGCCCCACCCCACTTTCCAGGGCAAAAAGGGCCCAGGGTTATAATAAGTA
AATAACTGTCTGT

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FIGURE 5445

GCACACCCGGAAGTGGGTGCGGGCCAGCCGGCTCGCCCCGGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGG
GTCCCCAGTCGGGGGCCTCCCGGGGAAGTCATTATCTGAATGTGGGAGGCAAGAGATTCACTACCTCTCGCCAG
ACTCTACCTGGATCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACC
GGAGCAATCTTATCGATCAGGGACCATTACAGTCTTCCGCCACCCGTCACCTCTGCGCATCACAAAGA
GTTGGATCCCAGGGGTGTCCACGGTTCAGCCTCCTCCATGAAGCCAGTTCTATGGGCTCACTCCTCTGGTTCG
TCGCCTGCAGCTTCGAGAGGAGTTGGATCGATCTTCTTGTTGAAACGTCCTCTTCAATGGTTACCTGCCGCCACC
AGTGTTCACAGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGGCCAGCCCCGT
CCGACGGAGCAACACGATGCCCCCAACCTTGGCAATGCAGGGCTGCTGGGCCGAATGCTGGATGAGAAAAACCC
TCCCTCACCTCAGGACAACCTGAGGAGCCGGGGATGGTGCGCCTGGTGTGTGGACACCATAATTGGATCGCTGT
GGCCTATACCCAGTTTCTAGTCTGCTACAGGTTGAAGGAAGCCTCTGGCTGGCAGCTGGTGTTCAGCCCCCG
CCTGGACTGGCCCATCGAACGACTGGCGCTCACAGCCCGGGTGCATGGTGGGGCTTGGGTGAACATGACAAGAT
GGTGGCAGCAGCCACCGGCAGCGAGATCCTGCTATGGGCTCTGCAGGCGGAAGGCGGTGGCTCCGAGATAGGGGT
CTTTCATCTGGGGGTGCTGTGGAGGCCTTGTCTTCGTGGGAACAGCTCATTGCTACAAGCCACACAGGGCG
CATCGGGGTGTGGAATGCCGTACCAAGCACTGGCAGGTCCAGGAGGTGCAGCCCATCACCAGTTATGACGCGGC
AGGCTCCTTCTCTCTGGGCTGCAACAACGGCTCCATTTACTACGTGGATGTGCAGAAGTTCCCTTGCGCAT
GAAAGACAACGACCTCCTTGTGAGCGAGCTCTATCGGGACCCAGCGGAGGATGGGGTCAACGCCCTCAGTGTCTA
CCTCACCCCAAGACAGTGACAGTGGGAACGGATCGAGATCGCCTATGGCACCAGCTCAGGGGGCGTGGGGT
CATCGTGACGACCCGGAGACTGTGGGCTCGGGGCTCAGCTCTTCCAGACCTTCACTGTGCACCGCAGCCCTGT
CACCAAGATCATGCTGTGCGAGAAGCACCTCATCTAGTCTGTGCCGACAACAACACGTGCGGACATGGTCTGT
GACTCGCTTCCGCGGCATGATTTCCACCCAGCCGGCTCCACCCACTCGCTTCCTTTAAGATCCTGGCTCTGGA
GTCGGCAGATGGGCATGGCGGCTGCAGTGTGGCAATGACATTGGCCCCTACGGTGAGCGGGACGACCAGCAAGT
GTTTCATCCAGAAGGTGGTGGCCAGTGCCAGCCAGCTCTTCTGTGCTCTCTCATCTACTGGGCAGCGGGTGTGCTC
CGTGCGCTCCGTGGACGGCTCACCCACGACAGCCTTACAGTGTGGAGTGCGAGGGCTCCCGCGGCTCGGCTC
TCGGCCCCGGCGCTACCTGCTCACTGGCCAGGCCAACGGCAGCTTGGCCATGTGGGACCTAACCCAGCCATGGA
CGGCCTCGGCCAGGCCCTGCAGGTGGCCTGACGGAGCAAGAGCTGATGGAACAGCTGGAACACTGTGAGCTGGC
CCCGCGGCTCCTTCAGCTCCCTCATGGGGCTGTCTCCCAGCCCTCACCCCGCATCTCCTCACCCAGCCTCCA
CTCAGCCTCCAGCAACACCTCCTTGTCTGGCCACCGTGGGAGCCCAAGCCCCCGCAGGCTGAGGCCCGGCGCCG
TGGTGGGGGACGCTTTGTGGAACGCTGCCAGGAACGGTGCAGGAGTGGGCCAGACCTCCGACGGCCACCCACACC
AGCCCCGTGGCCCTCCAGCGGTCTCGGCACCTCCCTCACACCTCCCAAGATGAAGCTCAATGAAACTTCCTTTTG
AACAACGCAGCTGCCATGATGCCTTGGGATGCCCTGGTCTGGGGGACTCAGGTGCTCCCTGATTCTGTGGGA
ACCCCGGGTTCAGGGCCAGGGCCTCCTTGGAATAAATGGTTATTGTTACTAGGTCCCCACCTTCCCTCTTTTCTG
GAAGCCAAAGTACCCTCCCCAATAAAGTCCTCACTGCC

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FIGURE 5446A

CGTTGCTGTTTGTGCTGCTGCCCCGGGCCAGACGTCTAGGAGGAGCCGCTGCATCCGAGTCCCTGGCTGTCTCCG
AAGCCTTCTGCAGGGTCCGAAGCTGCCAGCCCCAAAAGTGTGCAGGCCCCAGCGGTGCCTGAACCCAGTGCCTG
CAGTGCCAGTCCCAGCCCCAGCGTGAGGAAGAGACAGGTGTCCCTCAACTGGCAGCCACTGACGCTCCAGGAGG
CCAGAGCTCTACTGAAGCGGCGGGCGGCCCGGGGGCCAGGGGGCCGGGGACTACTGAGAAGGAGGCCCCACAGC
GTGCCCCCGCTGGCAAGGCCCGGTCTGTGTCCCTTGATCTGTGACAATGGCGGTGTGTGCGTGAAGCCTGACC
GCTGCCTCTGTCCCCGGACTTCGCTGGCAAGTTCTGCCAGTTGCACTCCTCGGGCGCCCCGGCCCCCGGCCCGG
CTGTACCAGGCCTACCCGCTCCGTGTACACTATGCCACTGGCCAACCACCGCGACGACGAGCAGCGGCTGGCAT
CTATGGTGAGCGTCCACGTGGAGCACCCGCGAGGAGCGTGGTGGTGGTGCACCAGGTGGAGCGTGTGTCTGGCC
CTTGGGAGGAGGCGGACGCTGAGGCGGTGGCGCGGGCGGAAGCGGCGGCGGGCGGAGGCGGCAGCGCCCTACA
CGGTGTTGGCACAGAGCGCGCGGGGAGGACGGCTACTCAGATGCCTCGGGCTTCGGTTACTGCTTTCGGGAGC
TGCGCGGAGGCGAATGCGCGTCCCCGCTGCCCGGGCTCCGGACGCGAGGAGTCTGCTGCCGAGGGGCGGGCTTG
CCTGGGGCGTTACGACTGTGAGCTGTGCTCCGAGCGCCTGGGGAACCTCGAAAGAGTGAGCGCCCCAGATGGAC
CTTGTCCAACCGGCTTTGAAAGAGTTAATGGGTCTGCGAAGATGTGGATGAGTGCGCGACTGGCGGGCGCTGCC
AGCACGGCGAGTGTGCAACACGCGCGGGCGGTACACGTGTGTGTGCCCGACGGCTTCTGCTCGACTCGTCCC
GCAGCAGCTGCATCTCCCAACACGTGATCTCAGAGGCCAAAGGCCCCCTGCTTCCGCGTGCTCCGCGACGGCGGT
GTTGCTGCCCATTTCTGCGGAACATCACTAAACAGATCTGCTGCTGCAGCCGCTAGGCAAGGCTGGGGCGGG
GCTGCCAGCTCTGCCACCCCTTCGGCTCAGAGGGTTTCCGGGAGATCTGCCGGCTGGTCTGGTTACCACTACT
CGGCTCCGACCTCCGCTACAACACCAGACCCCTGGGCCAGGAGCCACCCGAGTGTCACTCAGCCAGCCTCGTA
CCCTGCCACCACTCTCGGCCATCTGCAGGCTTTCTGCCACCCATCGCCTGGAGCCCCGGCCTGAACCCGGG
CCGATCCCCGGCCCGGCTGAGCTTCCCTTGCCAGCATCCCTGCCTGGACTGGTCTGAGATTCTGAATCAG
GTCCCTCCTCCGGCATGTGTGACGCAACCCCCAGGTCTGCGGCCAGGACGCTGCATTTCGGGCCAGCGGCT
ACACCTGCGCTTGCGACTCTGGCTTCGGCTCAGCCCCAGGGCACCCGATGCATTGATGTGGACGAATGTCGCC
GCGTGCCCCCGCCCTGTGCTCCCGGGCGCTGCGAGAATCACCAGGACGCTTCCGCTGCGTGTGCGGCCGGGCT
TCCGAGCCGGCCACGGGCTGCGGAATGCCGTGGATGTGGAGTGCCACCGCGTGCCGCCCGCGTGTGACCTCG
GGCGCTGCGAGAACACGCCAGGCGAGCTTCTGTGCGTGTGCCCGCGGGTACCAGGCTGACCCGACGGAGCCA
GCTGCCAGGATGTGGATGAATGCACCCAGAGCCCAGGCTGTGTGGCCGAGGGGCTGCAAGAACCTGCCTGGCT
CTTTCCGCTGTGTTTGGCCGGCTGGCTTCCGGGGCTCGGCGTGTGAAGAGGATGTGGATGAGTGTGCCAGGAGC
CGCCGCCCTGTGGGCGCGGCGCTGTGACAACACGGCAGGCTCCTTTCACTGTGCCTGCCCTGTGGCTCCGCT
CCCGAGGGCCCGGGCCCCCTGCCAAGATGTGGATGAGTGTGCCCAAGCCCCCACCCTGCACCTACGGCCGGT
GTGAGAACACAGAAGGCAGCTTCCAGTGTGTCTGCCCCATGGGCTTCCAACCCAACTGCTGGCTCCGAGTGC
AGGATGTGGATGAGTGTGAGAACCACCTCGCATGCCCTGGGCAGGAGTGTGTGAACCTGCCCCGGCTCCTTCCAGT
GCAGGACCTGTCTTCTGGCCACCACCTGCACCGTGGCAGATGCACTGATGTGGACGAATGCAGTTCCGGGTGCC
CTCCCTGTGGTCCCCACGGCCACTGCACTAACACCGAAGGCTCCTTCCGCTGCAGCTGCGCGCCAGGCTACCGGG
CGCCGTGCGGTGCGCCCGGGCCCTGCGCAGACGTGAACGAGTGCCTGGAGGGCGATTCTGCTTCCCTCACGGCG
AGTGCCTCAACACTGACGGCTCCTTTGCCTGTACTTGTGCCCTGGCTACCGACCCGGACCCCGCGGAGCCTCTT
GCCTCGACGTTGACGAGTGCAGCGAGGAGGACCTTGGCAGAGCGGCATCTGTACCAACACCGACGGCTCCTTCG
AGTGCATCTGTCTCCGGGACACCGCGCTGGCCCGGACCTCGCCTCCTGCCTCGACGTGGACGAATGTCGCGAGC
GAGGCCAGCCCTGTGCGGGTGCAGCGCTGTGAGAACTCTCCGGGCTCCTACCGCTGTGTCCGGGACTGCGATC
CTGGGTACCACGCGGGCCCCGAGGGCACCTGTGACGATGTGGATGAGTGCCAAGAATATGGTCCCGAGATTGTG
GAGCCCAGCGTTGTGAGAACACCCCTGGCTCCTACCGCTGCACACCAGCCTGTGACCCTGGCTATCAGCCCACGC
CAGGGGGCGGATGCCAGGATGTGAACGAGTGTGAACACTACAGGGTGTATGTGGAGCTGCCCTGTGTGAAAATG
TCGAAGGCTCCTTCTCTGTGTCTGCCCCAACAGCCCGGAAGAGTTTGACCCCATGACTGGACGCTGTGTTCCCC
CACGAACCTTCTGCTGGCACGTTCCAGGCTCGCAGCCCCAGGCACCTGCTAGCCCCGTTCTGCCCGCCAGGCCAC
CTCCGCCACCCCTGCCCGCCGACCCAGCACACCTAGGCAGGGCCCTGTGGGGAGTGGGCGCCGGGAGTGCTACT
TTGACACAGCGGCCCGGATGCATGTGACAACATCCTGGCTCGGAATGTGACATGGCAGGAGTGCTGCTGTACTG
TGGGTGAGGGCTGGGGCAGCGGCTGCCGCATCCAGCAGTCCCCGGGCACCGAGACAGCTGAGTACCAGTCATTGT
GCCCTCACGGCCGGGGCTACCTGGCGCCAGTGGAGACCTGAGCCTCCGAGAGACGTGGACGAATGTCAGCTCT
TCCGAGACCAGGTGTGCAAGAGTGGCGTGTGTGTGAACACGGCCCCGGGCTACTCATGCTATTGCAGCAACGGCT

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FIGURE 5446B

ACTACTACCACACACAGCGGCTGGAGTGCATCGACAATGACGAGTGCGCCGATGAGGAACCGGCCTGTGAGGGCG
GCCGCTGTGTCAACACTGTGGGCTCTTATCACTGTACCTGCGAGCCCCACTGGTGCTGGATGGCTCGCAGCGCC
GCTGCGTCTCCAACGAGAGCCAGAGCCTCGATGACAATCTGGGAGTGTGCTGGCAGGAAGTGGGGGCTGACCTCG
TGTGCAGCCACCCTCGGCTGGACCGTCAGGCCACCTACACAGAGTGTGCTGCTGCTGTATGGAGAGGCCTGGGGCA
TGGACTGCGCCCTCTGCCCTGCGCAGGACTCAGATGACTTCGAGGCCCTGTGCAATGTGCTACGCCCCCGCAT
ATAGCCCCCGCGACCAGGTGGCTTTGGACTCCCCTACGAGTACGGCCAGACTTAGGTCCACCTTACCAGGGCC
TCCCATATGGGCCTGAGTTGTACCCACCACCTGCGCTACCCTACGACCCCTACCCACCGCCACCTGGGCCCTTCG
CCCGCCGGGAGGCTCCTTATGGGGCACCCCGCTTCGACATGCCAGACTTTGAGGACGATGGTGGCCCCCTATGGCG
AATCTGAGGCTCCTGCGCCACCTGGCCCCGGGCACCCGCTGGCCCTATCGGTCCCGGGACACCCGCCGCTCCTTCC
CAGAGCCCGAGGAGCCTCCTGAAGGTGGAAGCTATGCTGGTTCCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGG
AGGAGTGCGGGATCCTGGACGGCTGCACCAACGGCCGCTGCGTGCGCGTCCCCGAAGGCTTCACCTGCCGTTGCT
TCGACGGCTACCGCCTGGACATGACCCGCATGGCCTGCGTTGACATCAACGAGTGTGATGAGGCCGAGGCTGCCT
CCCCGCTGTGCGTCAACGCGCGTTGCCTCAACACGGATGGCTCCTTCCGCTGCATCTGCCGCCCGGGATTGCGAC
CCACGCACCGCCGACCACTGTGCGCCCGCACGGCCCCGGGCCTGAGCCCTGGCACCCGCTGGCCGCCACCCG
CGCCCGCCACTCGGGGGCCCTGCCGCGCATCCTGCAGCCCGCTTATGCGTATGTGCACGGGGCCGCCCGCTGGA
CCTGGAGAAGGGACCTACGGACGCCTGGAAGCTGCGACGCCCTGCACTGCTCCCGCCTCCACCAGCGCCTCCAC
TGATGTCGTGGTCCCGGGCCTGGCCCAGGGGCCCTTTACATGCCCTCTCCCTTTTATAAAATTTCCATTAAAA
ACCACCTATTTTCT

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FIGURE 5447

GTGGTTATCGCGGCGCCACCGGCCTCTGATCTCTGAGTCTTCTCCAACCCACAGACGTTTTTTGTTGCTCTGGT
TCCAGGACCTTCTCCACAACCTAGGCCATTTTCCCTGCCAGGTGTCCTTTTTGACCTCTTGACCTCTGACTCAAAG
GTCAGCTCAAAGGTTCCGAACCTCGGGCCTGGGATGTGAGGGGGTACTGAACCTAAGTTCTCCGAATCTTTAGCCC
TGGGTCCCTAAGTCGCATCCTTAAGGCACCTCACTCTAGATCTGAGCCTTCATATCCCAAACCTCACTCATGAGTT
TCCACATCCAGCCCCAAAGAATGAGTTAACTCCTACTAACTCTCCACCTAAGACTCCCGAGGTAACCCAAACCGGT
ACCACAGATCCGGTTCCGGATTTAAGGACCCCAACCCTGTTAACCGTCAGGTGCCTTATGACTTGAGTCAGCCTCG
CAATTCCTGCTCCCGTGGTTTCAAATATTAGCCCTGGTCCTTTCACACCCACTGCTCAGTCCCCGAGATTCTGGAA
CTCAGCTCTTAAACCTTTAAATCTCCATCCCTGAGACCGTTCTCCGTTGGAGGATCCTTCCCTCCCCGCTTTCT
GAACCTCTCAACACCTCCTGTAGACCCCAAAATGACTTCTCCATGCTCTCCTCCCCATAAAACCAACCAATTTCTCC
TCCAAAACCCCTGTACCCCAAGCCAGCAGCATTCATCTCCTCCTCTACCCCCAAGTCCCCTGGACTTTTTCAGC
TTTACCATCCCTCCCTGGAGTCAGCAGACCCCTGTTCCCCCACCCTCCCACTGCCTCCTCCACCCGCTGCCAC
AGGGCCTGCTCCCGTCTATGTCTTCGGCCTGGAGAAGAGCCAGCTCCTGAAGGAGGCCTTTGATAAGGCCGGCCC
GGTCCCCAAGGGCAGAGAAGATGTGAAGAGGCTTCTGAACTACACAAGGACCGGTTCCGAGGTGACCTGCGGTG
GATCCTCTTCTGTGCAGACCTGCCGTCCCTCATCCAAGAAGGCCCTCAATGCGGGCTGGTGGCCTTGTGGATGGC
AGGTACTCTCCTGTGCCCCCAGTGGCGTCCCTGGAGAGACTCATACGGGTGGCCACGGAAAGAGGCTACAC
GGCCAGGGAGAGATGTTCTCAGCACCAGCTACGACGAGGACTTCAACCATGAGCCGTGTCAGAGGAAGGGCCAC
AAGGCACACTGGGCGGTGAGTGCAGGGGCTCCTGCTGGGTGTTCCGGCTGTGCCAGTCTCGGCTACACTGAGGAC
CCTGAGCTGCCGGGCTGTTCCACCCAGTGCTGGGCACGCCCTGCCAACCACCATCCCTGCCAGAGGAGGGCTCC
CCGGGAGCTGTCTACCTGCTGTCCAAGCAGGGCAAGAGTTGGCACTATCAGCTGTGGGACTACGACAGGTCCGG
GAGAGCAACCTGCAGCTGACGGACTTCTCGCCCTCACGGGCCACTGACGGCCGGGTGTACGTGGTGCCCGTGGGT
GGGGTACGGGCTGGCCTCTGTGGCCAGGCCCTGCTCCTCACACCACAGGACTGCAGCCATTAGCTGCGGCTGCGG
TCTCAGGCTGCAGCCTAGCTCGTTTTTAAAGCCCATCTGGGAGCAGTTACCTGTGCCAGCCCCCTCTACCTGTGTTA
GCAGATCTGGCAACCCTGTAAGGGGGGTGCTAGATGGACCCGATTGACAGATGGCAAGACTGAGGCCTGGAGAA
GTGGAATCACTGGCCTGAGGTCACATGACTAGCACATGGCAAGATGGAGTCTCGTTCTGTGCTCCAGGCTGGAGT
GCGGTGGCGTGATCTCAGCTCACTCCAGCCTCCACTTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCCCCAAG
TAACTGGGATTACAGGCATGCACCACCATGCCTGGCTAATTTTTTGTATTTTAGTAGAGACGGGGCTTTGCCAT
GTTGGCCAGGCTGGTCTCGAACTCCTGACCTTGAGTAATCCACCCGCTCGGCCCTCCCAAAGTGCTGGGATTACA
GGTGTGAGCCACTGAGCCCGGCCACAGTGCAATTTCTAACCAGTGATCAGGGTAAAGAGGATGCGTGTCACC
ATCCAGCCCTGATCAGCCTGTCTGTGCATCCCCCATCCAGCCAGGGCTTGGAGCAGCCTTGCTCACCAGTGTG
TCCCCTGCATTGTAACACATCCAGGCACAAGAATAGCCGCCCAGTGACTGCCAAGTGAGTGAACCAGCCTGCTTG
GAGCCTGCCTCTTTCCCAAACCTGCTCATTATCCTGTTACCCCAACCAGCCACGTGTCCAAATACACTCCAGATG
CAAAATAAAAAGCTCTACGACA

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FIGURE 5448

GAATTCCTGACTTCCTTTTCGGAGGAAGATCCTTGAGCAGCCGACGTTGGGACAAAGGATTTGGAGAAAACCCAGG
GCTAAAGTCACGTTTTTCCTCCTTTAAGACTTACCTCAACACTTCACTCCATGGCAGTTCCCGAGACCCGCCCTA
ACCACACTATTTATATCAACAACCTCAATGAGAAGATCAAGAAGGATGAGCTAAAAAAGTCCCTGTACGCCATCT
TCTCCCAGTTTGCCAGATCCTGGATATCCTGGTATCACGGAGCCTGAAGATGAGGGGCCAGGCCTTTGTATCT
TCAAGGAGGTCAGCAGCGCCACCAACGCCCTGCGCTCCATGCAGGGTTTCCCTTTCTATGACAAACCTATGCGTA
TCCAGTATGCCAAGACCGACTCAGATATCATTGCCAAGATGAAAGGCACCTTCGTGGAGCGGGACCGCAAGCGGG
AGAAGAGGAAGCCCAAGAGCCAGGAGACCCCGGCCACCAAGAGGCTGTGCAAGGCGGGGAGCCACCCCGTGG
TGGGGGCTGTCCAGGGGCCTGTCCCGGGCATGCCGCCGATGACTCAGGCGCCCCGCATTATGCACCACATGCCGG
GCCAGCCGCCCTACATGCCGCCCTTGGTATGATCCCCCGCCAGGCCTTGACCTGGCCAGATCCCACAGGGG
CCATGCCCCCGCAGCAGCTTATGCCAGGACAGATGCCCCCTGCCAGCCTCTTTCTGAGAATCCACCGAATCACA
TCTTGTTCCCTACCAACCTGCCAGAGGAGACCAACGAGCTCATGCTGTCCATGCTTTTCAATCAGTTCCCTGGCT
TCAAGGAGGTCCGTCTGGTACCCGGGCGGCATGACATCGCCTTCGTGGAGTTTGACAATGAGGTACAGGCAGGGG
CAGCTCGCGATGCCCTGCAGGGCTTTAAGATCACGCAGAACAACGCCATGAAGATCTCCTTTGCCAAGAAGTAGC
ACCTTTTCCCCCATGCCTGCCCCTTCCCTGTCTGGGGCCACCCCTTTCCCCCTTGGCTCAGCCCCCTGAAGG
TAAGTCCCCCTTGGGGGCCTTCTTGGAGCCGTGTGTGAGTGAGTGGTCGCCACACAGCATTGTACCCAGAGTCT
GTCCCCAGACATTGCACCTGGCGCTGTTAGGCCGGAATTAAAGTGGCTTTTGGAGTTTGGTTTTTACAAAAA
AAGGAATTC

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FIGURE 5449

MAVPETRPNHTIYINNLEKIKKDELKKSLEYAIFSQFGQILDILVSRSLKMRGQAFVIFKEVSSATNALRSMQGF
PFYDKPMRIQYAKTDSIIAKMKGTFVERDRKREKRKPKSQETPATKKAVQGGGATPVVGAVQGPVPGMPMTQA
PRIMHHMPGQPPYMPPPGMIPPPGLAPGQIPPGAMPPQQLMPGQMPPAQPLSENPPNHILFLTNLPEETNELMLS
MLFNQFPFGFKEVRLVPGRHDIAFVEFDNEVQAGAARDALQGFKITQNNAMKISFAKK

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FIGURE 5450

CGGACGAGGCACGAGTGAGGGGGGAGGCGGTGGCGGCGGCCATTTTGAGCCGCTGCCGCCATTGGAGTGGGCCCC
CCCCCTTTCCCCCTTCGCCTCCTGACAGGAAAGGTTTAAAGGGGGACAGAGCCCTGGGAGGCCGGGCGGGCTCGG
GGGCCACCCCGGGGGGCCGGGCCATGGATGTGCGCCGTCTGAAGGTGAACGAACTTCGCGAGGAGCTGCAGCGCC
GCGGCCTGGACACTCGAGGCCTCAAGGCCGAGCTTGCTGAGCGGCTGCAGGCGGCCTGGAGGCCGAGGAGCCTG
ACGACGAGCGGGAGCTCGACGCCGACGACGAACCGGGGCGACCCGGGCACATCAACGAGGAGGTTCGAGACCGAGG
GGGGCTCCGAGCTGGAGGGGACCGCGCAGCCACCGCCCGGGCTGCAGCCGCACGCGGAGCCCGGCGGCTACT
CGGGGCCGGACGGACATTATGCCATGGACAATATTACCAGGCAGAACCAATTCTACGATACCCAAGTCATCAAAC
AAGAAAACGAGTCAGGCTACGAGAGGAGACCCTGGAAATGGAGCAGCAGCAGGCCTATCGTCCAGAAATGAAGA
CAGAGATGAAGCAAGGAGCACCCACCAGCTTCTCCCGCCTGAAGCTTCTCAACTCAAGCCAGACAGGCAGCAAT
TCCAGAGTCGAAAGAGGCCCTTATGAAGAAAACCGGGGACGGGGGTACTTTGAGCACCGAGAGGATAGGAGGGGCC
GCTCTCCTCAGCCTCCTGCTGAAGAGGATGAAGATGACTTTGATGATACCCCTTGTTGCTATTGACACCTATAACT
GCGACCTCCACTTCAAGGTGGCCCGAGATCGGAGTAGTGCTATCCGCTCACAATTGAGGGCTTTGCATACCTGT
GGTCAGGAGCCCGTGCCAGCTATGGGGTCAGAAAGGGCCGTGTATGCTTCGAGATGAAGATCAATGAGGAAATCT
CCGTGAAGCACCTTCCGTCTACAGAGCCTGACCCCACTGGTCCGTATCGGCTGGTCCCTGGACTCCTGCAGCA
CCCAGCTAGGCCGAAGAGCCTTCTCCTATGGCTATGGAGGCACTGGGAAGAAGTCCACCAATAGCCGGTTTGA
ACTACGGAGACAAGTTTGCAGAGAACGATGTGATTGGCTGCTTTGCGGATTTTGAATGTGGAAATGACGTGGAAC
TGTCTTTTACCAAGAAATGGAAAGTGGATGGGCATTGCTTTCCGAATCCAGAAGGAAGCCTTGGGGGGTCAGGCC
TCTATCCTCATGTCTGGTGAAGAAATGCGCAGTGAGTTCAACTTCGGACAGAGAGCAGAGCCCTACTGTTCTG
TCTCCCGGGTTTACCTTCATCCAGCACCTTCCCTTAGTGAGCGTATCCGGGGCACCGTTGGACCAAAGAGCA
AGGCAGAATGTGAGATTCTGATGATGGTGGGCTGCCTGCTGCTGGCAAGACCACATGGGCCATCAAACATGCAG
CCTCCAACCTTCCAAGAAGTACAACATCCTGGGTACCAATGCCATCATGGATAAGATGCGGGTGATGGGCCTAC
GCCGGCAGCGAACTATGCTGGCCGCTGGGATGTCCTGATCCAGCAGGCCACCCAGTGCCTCAACCGCCTCATCC
AGATTGCTGCCCGCAAGAAACGCAACTATATCCTAGATCAGACAAATGTTTATGGGTGAGCCAGAGACGAAAA
TGAGACCATTGTGAAGGCTTCAGCGCAAAGCTATTGTAATTTGTCCACTGACGAGGAACCTAAAAGACCGAACAA
TAAAGCGAACCGACGAGGAAGGAAGGATGTCCAGATCATGCGGTCTTAGAAATGAAAGCCAACCTTCAGTTGC
CAGATGTTGGGGACTTCTTGGATGAGGTTCTGTTTATTGAGCTGCAGCGGGAGGAAGCGGACAGAGTGTGAGGC
AGTACAACGAGGAAGGCCGCAAGGCTGGGCCACCCCTGAAAACCGAGGACCCCTTGACAACCGAGGTGGTGGCTTCC
GGGGCCGCGGGGGTGGTGGTGGCTTCCAGCGCTATGAAAACCGAGGACCCCTTGAGGCAACCGTGGCGGCTTCC
AGAACCGAGGGGGAGGCAGCGGTGGAGGAGGCAACTACCGAGGAGGTTTCAACCGCAGCGGAGGTGGTGGCTATA
GCCAGAACCGCTGGGGTAACAACAACCGGGATAACAACAACCTCCAACAACAGAGGCAGCTACAACCGGGCTCCCC
AGCAACAGCCGCCACCACAGCAGCCTCCGCCACCACAGCCACCACCCAGCAGCCACCGCCACCACCCAGCTACA
GCCCTGCTCGGAACCCCCAGGGGCCAGCACCTACAATAAGAACAGCAACATCCCTGGCTCAAGCGCCAATACCA
GCACCCCCACCGTCAGCAGCTACAGCCCTCCACAGCCGAGTTACAGCCAGCCACCCCTACAACAGGGAGGTTACA
GCCAGGGCTACACAGCCCCACCGCCTCCACCTCCACCACCACCTGCCTACAACCTATGGGAGCTACGGCGGTTACA
ACCCGGCCCCCTATACCCACCGCCACCCCCACTGCACAGACCTACCCCTAGCCAGCTATAACAGTATCAGC
AGTATGCCAGCAGTGGAACCACTACTATCAGAACCAGGGCCAGTGGCCGCCATACTACGGGAACCTACGACTACG
GGAGCTACTCCGGGAACACACAGGGTGGCACAAGTACACAGTAGCCAGTGTGACCCAGAGGCTCCCGGAGGCCCC
TGCCGGCTTCTCCACCAGCGCTGCTCGGCCCTCCTCTGCCCCGCCAGATCCCGTGGTGTGGGATGGGG
TCATCCAGGGCTGCCTCCCTCCAGCCACTGCCTCCCTCTGAGGGGCTTCTTCCCTCCATAGGGCCAGGCA
TTTTTTTCTGGATTCAAACAGGCAACAATGACCTTTTATTTTCTGTTTGTCCCCACCTCCCCAGCCTTCCACCTC
CTGTTCTTCTACCTTCTTCTTTTGAATAAATAATCCCCACCTCCCTTGATCATACAGTGAGGCTACAGTGAC
TGAGGGGAGAATCCCTCCTGTTCACTCTCCCAACCTGCTCCAGCCCTCAGCTTCCAGACCCTCATGCAGTT
GGTTGTAATTTCTCCAGGAGCTGTTTTACTGTCTACTTTTCAGGATTAAAAAAAATCAAACTTAAAAAAA
AAAAGTTTAAAAAGCAAAATGGGGAGGGGGAGGAAGCAGTGACTTTTTTTGGTAATTATGCGCTTTTTTTTAAAT
TTTGTAGAAATTTGTCTTTTACTGTGGGTGGGCTGTTGATATTTATCAAGATAAGCATTTCTTCTGAGTTTCAG
GTGACTGAGGAAGAGCCACAAAACAAAACACAACAAAACCAAAACC

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GCTTGGGCGCAGCGGTGCACCCGGACCCGGAACATTCTCAGGCGAAAGTGTCCTCTTGCGTGCGTGGGCGCGGAGGT
 TAGTGTGCGGGGCCCCGCCGGCGGTTGAAAAGTCCGAGAGAATCAGGATGGAGGCCGTGGCGACGGCGACGGCGCG
 CGAAGGAACCCGATAAAGGGCTGCATAGAGCCTGGACCTGGGCACTGGGGTGAGCTGAGCCGGACACCAGTCCCAT
 CTAACCCCCAGGACAAAGTGAAGCAGCTGAGGCAACACCAGTGGCCCTGGACAGTGACACCTCCGGGGCTGAAA
 ATGCAGCAGTGAGTGTCTATGCTGCACGCTGTAGCCGCCAGCCGCTGCCTGTTTGAGCCAGCAGCAGGGTGAAC
 CCGACTTGACAGAGCATGAGAAAGTGGCCATCTGGCCCAGCTGTACCACGAGAAGCCACTGGTGTCTCTGGAGC
 GCTTCCGCACAGGCCCTCCGTGAGGAGCATCTGGCCTGCTTTGGCCACGTGCGTGGCGACCACCCTGCAGACTTCT
 ACTGTGCTGAGGTGGCCCGGCAGGGCACTGCCCGGCCCGCACCCCTGCGTACCCGCTGCGTAACCGGCGCTATG
 CTGCCCTGCGAGAGCTGATCCAAGGGGGCGAGTACTTCAGTGATGAGCAGATGCGGTTCCGGGGCCCCCTGCTAT
 ATGAGCAGTACATCGGGCAGTATCTCACCCAGGAGGAGCTCAGTGCCCGCACCCCAACCCACCAGCCCCCAAGC
 CCGGGTCCCCCGGGGAGACCTGCTTGCCCGCTCTCCAATTGCTGCTCCAGTCTTACGAGGAGCGGGAGCTACAGC
 AGCGTCTGCTCCAACAGCAGGAGGAGGAGGAGGCGCTGCTTGAGGAAGAGGAAGAGGAGGAGGACAGTGACGAGG
 AAGACCAGAGGTGAGGCAAGGACTCGGAGGCCTGGGTTCGCGACTCGGAGGAGAGGGCTGATCTGCGAGAGGAGT
 TCACCAGCCGCATGCACCAGCGCTTCTTAGATGGCAAGGACGGGGACTTTGACTACAGCACAGTAGACGACAACC
 CCGACTTCGACAACCTCGACATCGTGGCACGGGATGAGGAGGAGAGGTACTTTGATGAGGAAGAACCTGAGGATG
 CGCCCAGCCCAGAGCTGGATGGGGACTGATGGCCGCCACCCTTCCACCGCCTGCCCATCCCCATCCCCAACAA
 GGCAGCTGATTCCAGGCCTGCTCAGTGACCCTTTCTCTAGGGGGACATCAGGGCAGTGCCCCACAACCCACACAC
 ACCACCATCTCACTGGGTCTAGTCTCATCTCAGACAACCCCCACCCCCACTGTTTCTGGGGTCCCTTTCTCATC
 TCTCCACCCTGTCTCTGCTCTGTCTTTCTTGGTGTCTGTCTGGGCTTCTTTCTGTCTCTTTCTGTCTTTCTG
 TCTCTCTCCCTACCCCCGCTCCCTCTTTCCAGTGCTCTGGCTGGCTGTCTCTCCCTTTCTCCCCCTCTCTCTCTG
 CCTTAGGCTCTGTCTCCACCGCAGGGCCCCAAGGTGAAAGTCTCCCTTGCCGGAGGGCCAGCTGGCAGGGCCTTT
 CGTGGCTGGAAGTGGCCAGTTTGGTTCCGGTGCTGACCCCTAGGCCCCAGCGCAGCTGCCTCCCGTGCTGTCTGT
 CTCCCCCTCTCTGTTTATGTCTGCGCTGTGTCTCACACTCAGAGCCTCCTTGCTTCTGTTAGGTTCCCATCTCTC
 CTCTGCTCAGTCTCTGGGCTCTTTCTTTCTACTTGTACATTTCCACCTCTCTAGGCCTCTGCTCTCACTGTCCCT
 CTCTGTCTGTCTCTCAGCCTTTATCTCTGGGTTTTGATCCCCCACTCCAGGCTCTGGGCCCCCTTCTTCCCCCTT
 CCTCAAACCTGGCTGCTATAGGCAGCAGAACCTGACCCTGAGTAATACAGCCCCAGGGGAGGGAGGAGACCCC
 AGGCAGGGAGGATGGGGGCAGCTCTCTTCTCTCCCCAGGACCCAGGCTGTGGATCACGGGGCCTGCCAGCTTGAG
 TGTAGAGGGAGGGGGGACTCTACCCTTCTCAGCCCCACCAGCCCCCTCTGCCCAACCACAATTTCCCTTCCCTC
 CGCCTTCTCTCCCTCTCTGTTTACACTCCCCAAATGCGCACAGGCTGTTATCATGGGTCTGAGTCATCCAC
 ACACAGCCTGCCCCAGCGTCCCTGCCCCCAGCTGGCCGCGAGGGCCCGCCCCATGGAGCCCCCTGCCGCCCTGGGC
 TAATGGGAGCCAGATGGCCGCCTGGTGACTCAGCCACCGGGCCTGTGGGAACCCAGGCGTCCCGCCTTCCCATGC
 CCCCACACCCGGCTCTGTCTCCCCCAGCAGACACACAGGAGGGCCTGGCCACTGTTGAGGGGGGCACACAGGGC
 AAGGCTACCAAGTGGGGCCTAGGGACTCCTCATGCCTCTGAGATGGAATGGTGGTATCCTGCCGTGGCCAAGC
 CTGAAGGACCTCAAACCTGCCTCCTGGAGTCCACGGTTCCTGACCTCCGAGCCTCAGCTATGCCCTCTGGGTCA
 ACCAGAATTAGAGCCAGACAGGGAAGTGAAGCTGGATGGAGGCAGACAAGATGCTCAGAGCGACTATTAAAGA
 ACGAAAGCCTCTGCTACGGAGCGCTTCTGTCTCTGTCTCAGGCCCGAGCGAAGTGCCTGACACCGGGTTGGATCCT
 CAGATGGCCCCATGAACCTAGTGAAGTGGGTCAAAGGAGGCCTGGAAAGATGTTGCTTCTCAAGGCCACTCGGCC
 ATCAGAGGCAGAAATGAAACAGGAACCCAGGCCTAGAATCACAAAGGTCTTAGAAACCACTTGGCTGTCTGGCCT
 CTAGGTGTCAAGGCCATCCAGAGTGAGACAGCATTGGAGGGACAAGTGTGCATGCAGATGTCTCAGACGGGAA
 GGTTTGAGAAAGGTCAGATGGTAGCGGGCTTAACAAGGGCTCCGTGCTAGCCACTGTCCCGCACACAGACAGGA
 TCAGGTCTCTTTGATATGGAGATCAGTCCCCCAAATCACTGAATTGTCCAGCAGTGCTATGCCCTAGGTACTACC
 AATATCACTCCTCTATTTCCAGAGGAGGAAGCAGCAGCTAGACTCCAGGACCTTGGGGTCATATCTCTCAGAAA
 GCCAAGAGTGCAGGATGAGAGCTGTCTGTCTTTACCTGCCTGTATTGTGCCCATTTTTAAAGAGCAGAGGGC
 CTGGGCCACAGGAAAGGTATCAGCCCTTGGTGATAGGCACATTTTTTACCAGTCTATCATTTGGTCATTAAATTT
 GTTTACAATATACTTTGCTATAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5452

MEAVATATAAKEPDKGCIEPGPGHWGELSRTVPVPSKPDKVEAAEATPVALDSDTSGAENAAVSAM LHAVAASRL
PVCSQQQGEPLTEHEKVAILAQLYHEKPLVFLERFRTGLREEHLACFGHVVRGDHRADFYCAEVARQGTARPRTL
RTRLNRNRYAALRELIQGGEYFSDEQMRFRAPLLYEQYIGQYLTQEELSARTPTHQPPKPGSPGRPACPLSNLLL
QSYEERELQQRLLQQQEEEEACLEEEEEEEEDSDEEDQRSGKDSEAWVPDSEERLILREEFTSRMHQRFLDGDGD
FDYSTVDDNPDFDNLDIVARDEEERYFDEEEPEDAPSPELDGD

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FIGURE 5453

ACCTCCCTCCGCGGAGCAGCCAGACAGCGAGGGCCCCGCGCGGGGGCAGGGGGGACGCCCCGTCCGGGGCAGCCC
CCCCGGCTCTGAGCCGCCCCGCGGGGCGGGCCTCGGCCCGGAGCGGAGGAAGGAGTCGCCGAGGAGCAGCCTGAGGC
CCCAGAGTCTGAGACGAGCCGCCGCCGCCGCCGCGCCACTGCGGGGAGGAGGGGGAGGAGGAGCGGGAGGAGGGACG
AGCTGGTCGGGAGAAGAGGAAAAAACTTTTGAGACTTTTCCGTTGCCGCTGGGAGCCGGAGGCGCGGGGACCTC
TTGGCGCGACGCTGCCCCGCGAGGAGGCAGGACTTGGGGACCCAGACCGCCTCCCTTTGCCGCGGGGACGCTT
GCTCCCTCCCTGCCCCCTACACGGCGTCCCTCAGGCGCCCCCATTCCGGACCCAGCCCTCGGGAGTCGCCGACCCG
GCCTCCCGCAAAGACTTTTCCCAGACCTCGGGCGCACCCCTGCACGCCGCTTCATCCCCGGCCTGTCTCCTG
AGCCCCGCGCATCCTAGACCCTTTCTCCTCCAGGAGACGGATCTCTCTCCGACCTGCCACAGATCCCCATTCA
AGACCACCCACCTTCTGGTACCAGATCGCGCCCATCTAGGTTATTTCCGTGGGATACTGAGACACCCCGGTCCA
AGCCTCCCTCCACCCTGCGCCCTTCTCCTGAGGACCTCAGCTTTCCCTCGAGGCCCTCCTACCTTTTGCCGG
GAGACCCCAAGCCCTGCAGGGGCGGGGCTCCCAACACACAGCCCTGTTGCGCTCTCGGCAGTGCCGGGGG
GCGCCGCTCCCCCATGCGGCCCTCCGGGCTGCGGCTGCTGCCGCTGCTGCTACCGCTGCTGTGGCTACTGGTGC
TGACGCTGCGCGGCCGCGGACTATCCACTGCAAGACTATCGACATGGAGCTGGTGAAGCGGAAGCGCA
TCGAGGCCATCCGCGGCCAGATCCTGTCCAAGCTGCGGCTCGCCAGCCCCCGAGCCAGGGGGAGGTGCCGCCG
GCCGCTGCCCCGAGGCCGTGCTCGCCCTGTACAACAGCACCCGCGACCGGTGGCCGGGGAGAGTGCAGAACCGG
AGCCCGAGCCTGAGGCCGACTACTACGCCAAGGAGGTCAACCGCGTGCTAATGGTGGAAACCCACAACGAAATCT
ATGACAAGTTCAAGCAGAGTACACACAGCATATATGTTCTTCAACACATCAGAGCTCCGAGAAGCGGTACCTG
AACCCGTGTTGCTCTCCCGGGCAGAGCTGCGTCTGCTGAGGCTCAAGTTAAAGTGGAGCAGCACGTGGAGCTGT
ACCAGAAATACAGCAACAATTCTGGCGATACCTCAGCAACCGGCTGCTGGCACCCAGCGACTCGCCAGAGTGGT
TATCTTTTGATGTACCCGGAGTTGTGCGGCAGTGGTTGAGCCGTGGAGGGGAAATTGAGGGCTTTGCGCTTAGCG
CCCACTGCTCCTGTGACAGCAGGGATAACACACTGCAAGTGGACATCAACGGGTTCACTACCGGCCCGGAGGTG
ACCTGGCCACCATTCATGGCATGAACCGGCCCTTTCCGTGCTTCTCATGGCCACCCCGCTGGAGAGGGCCAGCATC
TGCAAAGCTCCCGGCACCGCCGAGCCCTGGACACCAACTATTGCTTCAGCTCCACGGAGAAGAACTGCTGCGTGC
GGCAGCTGTACATTGACTTCCGCAAGGACCTCGGCTGGAAGTGGATCCACGAGCCCAAGGGCTACCATGCCAACT
TCTGCCTCGGGCCCTGCCCCCTACATTTGGAGCCTGGACACGCAGTACAGCAAGGTCTGGCCCTGTACAACCAGC
ATAACCCGGGCGCCTCGGCGGCGCGCTGCTGCGTGCCGAGGCGCTGGAGCCGCTGCCATCGTGTACTACGTGG
GCCGCAAGCCCCAAGGTGGAGCAGCTGTCCAACATGATCGTGCGCTCCTGCAAGTGCAGCTGAGGTCCCGCCCCG
CCCGCCCCGCCCCGCGCAGGCCCGCCCCACCCCGCCCCGCCCCGCTGCCTTGCCCATGGGGGCTGTATTTAAGG
ACACCCGTGCCCAAGCCACCTGGGGCCCCATTAAAGATGGAGAGAGGACTGCGGATCTCTGTGTATTGGGCG
CCTGCCTGGGGTCTCCATCCCTGACGTTCCCCCACTCCCACTCCCTCTCTCTCCCTCTCTGCTCCTCTGCTG
TCTGCACTATTCTTTGCCCCGCGCATCAAGGCACAGGGGACAGTGGGGAACACTACTGTAGTTAGATCTATTTAT
TGAGCACCTTGGGCACTGTTGAAGTGCCTTACATTAATGAACCTATTGAGTACCATAGCAACACTCTGAGATGC
AGGGACTCTGATAACACCCATTTTAAAGGTGAGGAAACAAGCCAGAGAGGTTAAGGGAGGAGTTCCTGCCACC
AGGAACCTGCTTTAGTGGGGGATAGTGAAGAAGACAATAAAAGATAGTAGTTCAGGCCAGGCGGGGTGGCTCACG
CCTGTAATCCTAGCACTTTTGGGAGGCAGAGATGGGAGGATTACTTGAATCCAGGCATTTGAGACCAGCCTGGGT
AACATAGTGAGACCCTATCTCTACAAAACACTTTTAAAAAATGTACACCTGTGGTCCCAGCTACTCTGGAGGCTA
AGGTGGGAGGATCACTTGATCCTGGGAGGTCAAGGCTGCAG

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FIGURE 5454

CAGCCGCACGTGGGCTCGGCGCGGATGGAGGAGGAGACGCATACTGACGCCAAAATCCGTGCTGAAAATGGAACAG
GGTCCAGCCCTCGGGGTCCTGGCTGCAGCCTCCGGCACTTTGCCTGCGAACAGAACCTGCTGTCGCGGCCAGATG
GCTCTGCTTCCTTCCTGCAAGGTGACACCTCTGTCTGGCGGGTGTGTACGGGCGGGCCGAGGTGAAGGTCAGCA
AAGAGATTTTCAACAAGGCCACACTCGAAGTGATCCTGAGGCCGAAGATTGGGCTGCCTGGTGTTCAGAGAAGA
GCCGGGAGCGGCTGATCAGGAACACGTGCGAGGCGGTGGTGTGGGCACGTTGCACCCCGCACCTCCATCACCG
TGGTGCTGCAGGTTGTGAGCGATGCCGGCTCTCTCTGGCCTGTTGTCTGAATGCCGCTGCATGGCATTGGTGG
ATGCAGGTGTGCCCATGCGGGCTCTCTCTGTGGGGTCGCTGCGCCCTGGACTCTGATGGGACCCCTCGTGCTGG
ATCCTACATCCAAGCAAGAAAAGGAGGCCCGGGCAGTCTTGACCTTTGCCCTGGACAGCGTGGAACGGAAGCTGC
TGATGTCCAGCACCAAGGGGCTCTACTCAGACACTGAGCTCCAGCAGTGCTGGCTGCGGCCAGGCCGCTTCGC
AACACGTCTTCCGTTTCTACCGGGAATCGCTGCAGAGGCGTTACTCCAAGAGCTGAGGCAAGCTGGGGCAAGGGG
CCGCTCCCATTGCCTCCACCCACTCACCCCTACAGCCTGAAGCAAACCAGCAGCCCAGCCTTGCTCTCTGACC
CATGGGCTCCTTGAGCCTGCAGCTCTGTAACCACAGGGCTCCTGTGGGGAGGCCTTGGCCTGTGACAGCCCCAG
GCCTGGGGGCACAGATCCCCCAGCAAGGATAACATTCAAAGGAGCTCACATTTATGGAATGGATGAATCAATAA
ATTAATTCACTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5455

MEEETHDAKIRAENGTGSSPRGPGCSLRHFACEQNLLSRPDGSASFLOGDTSVLAGVYGPAEVKVSKEIFNKAT
LEVILRPKIGLPGVAEKSRRERLI RNTCEAVVLGTLHPRTSITVVLQVVSDAGSLLACCLNAACMALVDAGVPMRA
LFCGVACALDSDGTLVLDPTSKQEKEARAVLTFALDSVERKLLMSSTKGLYSDTELQQCLAAAQAASQHVFRFYR
ESLQRRYSKS

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FIGURE 5456

GTTAGCCAAGATGGCGGTAGCGATCGCTGCAGCGAGGGTCTGGCGGCTAAACCGTGGTTTGAGCCAGGCTGCCCT
CCTGCTGCTGCGGCAGCCTGGGGCTCGGGGACTGGCTAGATCTCACCCCCCAGGCAGCAGCAGCAGTTCATC
TCTGGATGACAAGCCCCAGTTCCCAGGGGCTCGGGCGAGTTTATAGATAAGTTGGAATTCATCCAGCCCAAGT
CATCTCTGGAATCCCCATCTACCGCGTCATGGACCGGCAAGGCCAGATCATCAACCCAGCGAGGACCCCCACCT
GCCGAAGGAGAAGGTGCTGAAGCTCTACAAGAGCATGACACTGCTTAACACCATGGACCGCATCCTCTATGAGTC
TCAGCGGCAGGGCCGGATCTCCTTCTACATGACCAACTATGGTGAGGAGGGGCACGCACGTGGGGAGTGCCGCCGC
CCTGGACAACACGGACCTGGTGTGTTGGCCAGTACCGGGAGGCAGGTGTGCTGATGTATCGGGACTACCCCTGGA
ACTATTCATGGCCCAGTGCTATGGCAACATCAGTGACTTGGGCAAGGGGCGCCAGATGCCTGTCCACTACGGCTG
CAAGGAACGCCACTTCGTCACTATCTCCTCTCCACTGGCCACGCAGATCCCTCAGGCGGTGGGGGCGGCGTACGC
AGCCAAGCGGGCCAATGCCAACAGGGTCGTCACTCTGTTACTTCGGCGAGGGGGCAGCCAGTGAGGGGGACGCCCA
TGCCGGCTTCAACTTCGCTGCCACACTTGAGTGCCCCATCATCTTCTCTGCCGGAACAATGGCTACGCCATCTC
CACGCCCACCTCTGAGCAGTATCGCGCGCATGGCATTGCAGCACGAGGCCCCGGGTATGGCATCATGTCAATCCG
CGTGGATGGTAATGATGTGTTTGCCGTATACAACGCCACAAAGGAGGCCCCGACGGCGGGCTGTGGCAGAGAACCA
GCCCTTCCTCATCGAGGCCATGACCTACAGGATCGGGCACCACAGCACCAGTGACGACAGTTCAGCGTACCGCTC
GGTGGATGAGGTCAATTACTGGGATAAACAGGACCACCCCATCTCCCGGCTGCGGCACTATCTGCTGAGCCAAGG
CTGGTGGGATGAGGAGCAGGAGAAGGCCCTGGAGGAAGCAGTCCCGCAGGAAGGTGATGGAGGCCTTTGAGCAGGC
CGAGCGGAAGCCCAAACCCCAACCCCAACCTACTCTTCTCAGACGTGTATCAGGAGATGCCCCCCAGCTCCGCAA
GCAGCAGGAGTCTCTGGCCCGCCACCTGCAGACCTACGGGGAGCACTACCCACTGGATCACTTCGATAAGTGAGA
CCTGCTCAGCCCACCCCCACCCATCCTCAGCTACCCCGAGAGGTAGCCCCACTCTAAGGGGAGCAGGGGGACCTG
ACAGCACACCACTGTCTTCCCCAGTCAGTCCCTCTAAAATACTCAGCGGCCAGGGCGGCTGCCACTCTTCACCC
CTGCTCCTCCCGGTGTTACATTGTGAGGGGACAGCATCTGCAGCAGTTGCTGAGGCTCCGTCAGCCCCCTCTTC
ACCTGTTGTTACAGTGCCCTTCTCCAGGGGCTGGGTGAGGGCACATTCAGGACTAGAAGCCCTCTGGGCATGGG
GTGGACATGGCAGGTGAGCCTGTGGAACCTGCGCAGGTGCGAGTGCCAGCAGAGGTCACGAATAAACTGCATCT
CTGCGCCTGGCTCTCT

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FIGURE 5457

MAVAIAAARVWRLNRGLSQAALLLLRQPGARGLARSHPPRQQQFSSLDDKPQFPGASAEFIDKLEFIQPNVISG
IPIYRVMDRQGQIINPSEDPHLPKEKVLKLYKSMTLLNTMDRILYESQRQGRI SFYMTNYGEEGTHVGSAAALDN
TDLVFGQYREAGVLMYRDYPLELFMAQCYGNISDLGKGRQMPVHYGCKERHFVTISSPLATQIPQAVGAAYAAKR
ANANRVVICYFGEAASEGDAHAGFNFAATLECP IIFCRNNGYAI STPTSEQYRGDGI AARGPGYGIMSIRVDG
NDVFAVYNATKEARRRAVAENQPFLIEAMTYRIGHHSTDDSSAYRSVDEVNYWDKQDHPISRLRHYLLSQGWWD
EEQEKAWRKQSRRKVMEAFEQAERKPKPNPNLLFSDVYQEMPAQLRKQQESLARHLQTYGEHYPLDHFDK

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FIGURE 5458

AGCAAGATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGTTCGCCCCCATGTGGAATGGGCGTATCAGGGGCATCCAT
CGCCTGGGTGCGGCAGTGGCCCCAGAGGGCAGTCAGAAGAAGAAAAGGACAATACTCCAGTTCCTGACCAACTAT
TTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTCCAAAGGGAGATGTACAAGGTGCATGAGAAAAATCGATCT
TACACCTGGCTGGAGAAGCAACATGGTCCATACGGCGCAGGTGCCCTTTTTCATCCTGAAGCAGGGAGGCGCAGTC
AAGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCTCAGGAGTTCTGGAATTTCTGTGAA
GTGCCTGTGCAAGCTGTGGATGCCGGTGACTGTGACATCAACTACGAGGGCCTGGATAACCTCCTCCGCCTGAAG
GAGCTCCAGTCCCTTGTCGCTGCAGCGCTGCTCCACGTGGACGACTGGTGTCTCAGCCGCTCTACCCACTGGCC
GACTCGTTGCAGGAGCTCTCGCTGGCCGGTTGCCCCCGCATCTCCGAACGGGGCCTCGCCTGCCTCCACCACCTC
CAGAACCTCCGCAGGCTGGACATCTCGGACCTCCCTGCCGTGTCCAACCCTGGCCTCACTCAGATATTGGTGGAG
GAGATGCTGCCCAATTGCGAGGTTGTGGGAGTCGACTGGGCTGAGGGCCTGAAGTCAGGGCCGGAGGAGCAGCCT
CGGGACACAGCCAGCCCTGTCCCTGCCCTAGCCTTTAGCCCTGTCCCCACTCACGTGGCTTCTCAGCGGGCTGCAT
GGAATGTCTGGTAGCTCACCACACTTCTGGCTTCCATTTGTCTTCACTCAACGTCAGGGTGGGGGAGTGGTGTCTG
GCCAATCACAGGAGAGAGCGTGAGTTCCAGTATTTATTCCTGGCTGCCCTTGGCTAAAGGTCACAGCTCCTGTC
ACCCTGTCAGGCAGCCCTTTCCATGCCCTGTTTCAGGCCTGGGGAGGTAAAGGCTCAGGCTGTTAGTAGCCGCAG
AGAGCCACACTCACCTTGTGAGGAGACTCTTCTCAAAGTGTCTTATGTGAGTGCAGTGCATTTCTTGCAGGGA
CCCTGACTGACACAGGGGCTACTACTGACACTTTACAGGGATGGTTCTCCCCCGTGCAGGGCCGCTGTGCCCACT
GCAGGACATGCAGCATCCTTCGCCCCACTCCACTCACTAAAGGCCAGCGCACCCCAGGCCCATAGTATTGCTGG
TTATGGATTTATTGACTTTATGTTCCAAATTCAGCTTTTTCAGTTGGCAGTTTTTTGAAAGGGGATAAGCTTTGT
CAGTAGAGGGCACCAACAGGCATTATAGGAGGAAAGGCGCCTCCTTCGTGGTTCTTGTGGTTGTGCTTCTGCC
TCTGGACGCCGAGTGCATGTGGCTTCCCCAGCACCCAGCTCCTGAAGCACCCAGGCGGTGAGCAGCTGCCCTTGG
CACCTCCAGCCCTCAGAAGTTGCGTAGGAGACACAGCGCCTCCACTGAGGCACCTCTCTGGGAATAACGTTCCC
CAGCACCCCAAATGGATTTCCAGTCAATTCAGAAGCATTTTACCAGTGAAGCCCTCATTATTCCAGTTCAGTGT
AAAGCCAGTAATTCTCTATATTAACTTTCCCTGTTCAAGTT

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FIGURE 5459

MAAPWASLRLVAPMWNGRIRGIHRLGAAVAPEGSQKKKRTILQFLTNYFYDVEALRDYLLQREMYKVHEKNRSYT
WLEKQHGPYGAGAFFILKQGGAVKFRDKEWIRPDKYGHFSQEFWNFCEVPVEAVDAGDCDINYEGLDNLLRLKEL
QSLSLQRCSHVDDWCLSRLYPLADSLQELSLAGCPRISERGLACLHHLQNLRRLDISDLPAVSNPGLTQILVEEM
LPNCEVVGVDWAEGLKSGPEEQPRDTASVPA

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FIGURE 5460

GGAGGCTGCAACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGAT
CACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGA
GCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGT
GGGATCCAGCTGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAA
GCGGAAAAAGCTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAAACGGGCCTTAAAAGATGAAGAAAAG
ATGGAACTCCAGGAAATCCAACTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTG
GCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTACTC
TCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGA
GTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGG
GGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTTCTCCTTTCGCCGCCCCCTCCTTCGCCGCCCGCT
CCTTCCCTGTATCTTTTAAAGTTTCTTTCCTACCCTGTCCCCATTTCTGGTAAGGTTTCTAGGAGGTCTGTTA
GGTGATACCTACAGCTTATTGGCTTAATATGTACTCTCCTTTGATGTGGTCTACTTGGGGCCGATTGGGAGAA
AGAGAAATCAATAGTGCAACTGTTTTGATAATGAATATTGACAAGTGTCTTTTGAATAAAGAACCAGTCC

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FIGURE 5461

ACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATC
GAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAG
CGAGAAGTTGAGGGAGAAAGGTGGGCCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGC
TGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAG
CTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAAGATGGAACTCC
AGGAAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGT
TGGTGATCTTTAACTGGAAGGCTGCTTTCTCCTTTTCGCCGCCCCCTCCTTCCGCCGCCCGCTCCTTCCCTGTGTC
TTTTTCACCAAACCTGTCCGCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATT
TAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTATGTTGTGATGTACACATTTTGTAATTACCTCTTT
TGTTGTTTTGTAGCAACCTTTTGTAAACATTCCATATAATACCACAGCCCTGAAGCAGCGATCGAATCCCTTTC
TCACTTT

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FIGURE 5462

CCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATCGAG
GCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAGCGA
GAAGTTGAGGGAGAAAGGTGGGCCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGG
TTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCCAGG
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAAAAGAAGATTGTGTTTTTGCCACTGATTTAGCCATGTGAAACTCATCTCATTACCCTTTTCT
GAGTTTGAAGCTGCTGTCTCTACAAGTGCCATCTCATTGTGCTTTGTATCAGTCAGTGCTGGAGAAATCTTGAAT
AGCTTATGTACAAAACTTTT

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FIGURE 5463

TCACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTG
AGCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGAGGTAAGAAGGTTATTGAAAACCGGGCC
TTAAAAGATGAAGAAAAGATGGAATCCAGGAAATCCAATCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGAT
AGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAG
CTGGCAGAATCCCTTTGCCGAGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCT
GCTGAAGAAAAGTACTCTCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAAATAAGGAG
GCGGAGACCCATGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAA
CTGAAATGCACCAAAGGGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATG
TAGAACGCCTCAGTCTCACCTGCTGCTGCTCCTCCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCAC
CTTTGAAACAACATTTAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTATGTTGTGATG

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FIGURE 5464

MMQRSELSASSEKLREKGGPGNRGKKVIENRALKDEEKMELQEIQLREAKHIAEEADRKYEEVARKLVIIEGDLE
RTEERAELAESLCREMDEQIRLMDQNLKCLSAAEEKYSQKEDKYEEEIKILTDKIKEAETHAEFAERSVAKLEKT
IDDLEDKCLKCTKGEHLCTQRMLDQTLLDLNEM

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FIGURE 5465

GCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGGTTGAAGAGGAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACCTCCAGG
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGAGTTTGCTGAGAGAT
CGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGGGGAGCACCTCTGTA
CACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAACGCCTCAGTCTCACCCCTGCTGCTGCT
CCTCCCTCTGAACCAGACTCCGCCTGAGGCCAGCCTGCCCGAAGCTGACCTTTAATTGAGGGCTGATCTTTAACT
GGAAGGCTGCTTTCTCCTTT

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FIGURE 5466

ATGTCTAAGTCAGAGTGTCCCGAAGAGCCTGAACAGCTGAGGAAGCTCTTCATTGGAGGATTGAGCTTTGAAACA
ACTGATAAGAGCCTGAGAAGCCATTTTGAGCAATGGAGAATGCTCACGGACTGTGTGGTGGATAGAAGAGTTGTG
GAACCAAAGAGAGCTGTCTCAAGAGAAGATTCTCAAAGACCAGAACATCACCTAAGAGATTATTTTGAACAGTAT
GGAAAAATTGAAGTGACTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCCTTTCTAACCTTT
GATGACCGTGACTCCGTGGGTGGCTATGGCGGTTCCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAA

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FIGURE 5467

MSKSECPEEPEQLRKLF IGGLSFETTDKSLRSHFEQWRMLTDCVVDRRVVEPKRAVSREDSQRPEHHLRDYFEQY
GKIEVTEIMTDRGSGKKRGFAFLTDDRDSVGGYGGSSSSSSSYGSGRRF

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FIGURE 5468

CGCCCGACTTGTGCGCCCGGGAAACCCCGTCGTTCCCTTTCCCTGGCTGGCAGCGCGGAGGCCGCACGATGCCT
GGAGTTACTGTAAAAGACGTGAACCAGCAGGAGTTCGTGAGAGCTCTGGCAGCCTTCCTCAAAAAGTCCGGGAAG
CTGAAAGTCCCCGAATGGGTGGATACCGTCAAGCTGGCCAAGCACAAAGAGCTTGCTCCCTACGATGAGAACTGG
TTCTACACGCGAGCTGCTTCCACAGCGCGGCACCTGTACCTCCGGGGTGGCGCTGGGGTTGGCTCCATGACCAAG
ATCTATGGGGGACGTGAGAGAAACGGCGTCATGCCCAGCCACTTCAGCCGAGGCTCCAAGAGTGTGGCCCGCCGG
GTCCTCCAAGCCCTGGAGGGGCTGAAAATGGTGGAAAAGGACCAAGATGGCGGCCGAAACTGACACCTCAGGGA
CAAAGAGATCTGGACAGAATCGCCGGACAGGTGGCAGCTGCCAACAAGAAGCATTAGAACAAACCATGCTGGGTT
AATAAATTGCCTCATTTCGTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5469

MPGVTVKDVNQEFVRALAAFLKKSGLKVPEWVDTVKLAKHKELAPYDENWFYTRAASTARHLYLRGGAGVGSM
TKIYGGRQRNGVMP SHFSRGSKS VARRVLQALEGLKMVEKDQDGGGRKLTPQGQRDLDRAGQVAAANKKH

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FIGURE 5470

GGGCGCCCCGCCGGTCACTTCCGCGCGGACACCAGCCTTGAGAGCCCAGGGAGATGGAAGACTTCGCCCCAGGG
GCGGCCTCCCCAGGCCCCCTCCCGGCTGGCCTGGTTCCCGTCAGCATCATCGGGGCTGAGGATGAGGATTTTGAG
AACGAGCTGGAGACAACTCAGAAGAGCAAAACAGCCAGTTCCAGAGCCTGGAGCAGGTGAAGCGGCGCCAGCC
CACCTCATGGCCCTCCTGCAGCACGTGGCCCTGCAGTTTGAGCCAGGACCCCTGCTTTGCTGTCTGCATGCCGAC
ATGCTGGGCTCACTGGGCCCAAGGAGGCCAAGAAGGCCTTCTGGACTTCTACCACAGCTTCTGGAGAAGACA
GCGGTTCTCCGGGTGCCGGTCCCTCCCAACGTCGCCCTTTGAACCTGACCGCACTAGGGCTGACCTCATCTCCGAG
GATGTCCAGCGGCGGTTTCGTGCAGGAGGTGGTGCAAAGCCAGCAGGTAGCCGTGGGCCGGCAGCTGGAGGACTTC
CGTTCCAAGCGGCTCATGGGCATGACGCCCTGGGAGCAGGAGCTGGCCAGCTGGAGGCTTGGGTTGGGCGGGAC
CGAGCCAGCTACGAGGCCCGGGAGCGGCACGTGGCGGAGCGGCTGCTCATGCACCTGGAGGAGATGCAACATACC
ATCTCTACCGACGAAGAAAAGAGTGCTGCCGTGGTCAACGCCATTGGCCTGTACATGCGCCACCTTGGGGTGCGG
ACCAAGAGTGGAGACAAGAAGTCGGGGAGGAACCTTCTCCGGAAGGTGATGGGGAACCGGCGGTCGGACGAG
CCTGCCAAGACCAAGAAGGGGCTGAGCAGCATCCTGGATGCCGCCCGCTGGAACCGGGGAGAGCCCCAGGTTCCA
GATTTTCGACACCTCAAAGCAGAGGTTGATGCCGAGAAGCCAGGTGCTACAGACCGGAAGGGAGGCGTGGGGATG
CCCTCTCGGGACCGGAATATCGGGGCTCCTGGGCAGGACACCCCTGGAGTCTCTGACACCTCTGTCCCTGGAC
AGCCAGACCGGGAACAGGTGCTGACGCCCCCTGGAGCTGGGGGACTCATCCCCGAGGGGCCAATGAGCCTG
GAGTCTTGGCGCCCCAGAGAGTACCGACGAGGGGGCCGAAACCGAGAGCCCCGAGCCTGGAGATGAGGGGGAG
CCGGGGCGGTGCGGACTGGAGCTTGAACCAGAAGAGCCTCCCGGTGGCGGGAACCTGTCACCCAGACACCCCTG
CACAGCCTGCCAAGAGCCAGGTGAAGCGGCAGGAGTGCATCAGCGAGCTGCTGGTGACAGAGGCGGCCACGTG
CGCATGCTGCGGGTGTGTCACGACCTCTTCTTCCAGCCCATGGCAGAATGCCTGTTCTTCCCTTGGAGGAGCTG
CAGAACATCTTCCCAGCCTGGACGAGCTCATCGAGGTGCATTCCCTGTTCTCGATCGCCTGATGAAGCGGAGG
CAGGAGAGTGGCTACCTCATCGAGGAGATCGGAGACGTGCTGCTGGCCCCGTTGATGGTGCTGAGGGCTCCTGG
TTCCAGAAAATCTCCTCCCGCTTCTGCAGCCCGCAGTCATTGCTTAGAGCAGCTCAAAGCCAAGCAACGCAAG
GACCTCGGTTCTGTGCCTTCGTGCAGGAAGCTGAGAGCCGCCCGCGGTGCCGCCGCTGCAGCTGAAGGACATG
ATCCCCAGGAGATGCAGCGGCTGACCAAGTACCCCTGCTCCTGCAGAGCATCGGGCAGAACACAGAAGAGCCC
ACAGAACGGGAGAAAGTGGAGCTGGCAGCCGAGTGCTGCCGGGAAATCTACACCAGCTCAACCAAGCCGTGCGT
GACATGGAGACCTGCTGAGGCTCAAGGACTATCAGCGGCGCTGGACTTGTCACCTTCGGCAGAGCAGCGAC
CCTATGCTGAGCGAGTTCAAGAACCTGGACATCACCAAGAAGAAATGGTCCACGAGGGCCCACTGACGTGGCGG
GTGACTAAGGACAAAGGCAAGTGGAGGTGCATGTGCTGCTGCTGGACGACCTGCTGCTGCTGCCAGCGCCAGGAC
GAGCGGCTGCTGCTCAAGTCCCATAGCCGACACTGACGCCCACGCCGATGGCAAGACCATGCTGCGGCCCGTG
CTGCGGCTCACCTCCGCCATGACCCGCGAGGTGGCCACCGATCACAAAGCCTTCTACGTCTTTTACCTGGGAC
CAGGAGGCCAGATATACGAGCTGGTGGCACAGACTGTGTCGGAGCGGAAAACTGGTGTGCTCTCATCACTGAG
ACTGCCGATCCCTGAAAGTCCCTGCCCCCTGCTCTCGCCCTAAGCCCCGGCCAGCCCCAGCAGCACCCGAGAA
CCCCCTCCTCAGCAGCTCTGAGAACGGCAATGGTGGCCGAGAGACGTCTCCAGCTGATGCCCGGACCGAGAGAATC
CTCAGTGACCTCCTGCCCTTCTGCAGACCAGGCCCCGAGGGCCAGCTCGCTGCCACGCGCTTCGGAAAGTGCTG
TCCCTGAAGCAGCTTCTGTTTCCGGCGGAGGAAGACAATGGGGCGGGGCTCCTCGAGATGGGGATGGGGTCCCA
GGGGGCGGCCCCCTGAGCCCAGCACGGACCCAGGAAATCCAGGAGAACCTGCTCAGCTTGGAGGAGACCATGAAG
CAGCTGGAGGAGTTGGAGGAGGAATTTGCCGCTGAGACCCCTCCTGTCTCAGCTTGGGGGGAACCTCTGTCCCC
CAGCCTGGCTGCACTTGAAGTTCCCGCCCAGGAAGGCCTTTTGCAAGAAGGAGAGGAATGGGGGAGAGGACGTGA
GGGACCACCCCCACCCACACAGCTGCCGACGATCTCACACCCGAGGGCCTGAGGAGAGGGAGCTGTGGGCCAC
GCCTGGGAGGGGCCCCAGCTGGGGTTACTGGCCCCGATGAGCCTCGGCCATCTCTCCCTCCTGCCCTCTGCTTGG
GGGACTCAGGGCTCCATTCTGGAGGGCACACGGTGACCCGGGCCATCTCAGTATTGCTGTGGGGGCCACCCCT
CCACCCCCACCCCAAGTGCTTCGCTCTGTTTTTATACCCTGAATTGGAGGGTTTATTTTTTAATATATATTAT
CTAAGAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5471

MEDFARGAASPGPSRPGPLVPVSIIGAEDEDFENELETNSEEQNSQFQSLEQVKRRPAHLMALLQHVALQFEPGPL
LCCLHADMLGSLGPKEAKKAFLDFYHSFLEKTAVLRVPVPPNVAFELDRTRADLISEDVQRRFVQEVVQSQQVAV
GRQLEDFRSKRLMGMPWEQELAQLEAWVGRDRASYEARERHVAERLLMHLEEMQHTISTDEEKSAAVVNAIGLY
MRHLGVRTKSGDKKSGRNFFRKKVMGNRRSDEPAKTKKGLSSILDAARWNRGEPQVPDFRHLKAEVDAEKPGATD
RKGGVGMPSRDRNIGAPGQDTPGVSLHPLSLDSPDREP GADAPLELGDSSPQGPM SLES LAPPESTDEGAETESP
EPGDEGEPPGRSGLELEPEEPPGWRELVPD TLHSLPKSQVKRQEVISELLVTEAAHVRLRLVLDLFFQPM AECL
FFPLEELQNIFFPSLDELIEVHSLFLDRLMKRRQESGYLIEEIGDVLLARFDGAEGSWFQKISSRFC SRQSFAL EQ
LKAKQRKDPRFC AFVQEAESRPRCRLQLKDMIPTQMRLTKYPLLQSIGQNT EEP TEREKVELAAECCREILH
HVNQAVRDMEDLLRLKDYQRRDL SHLRQSSDPMLSEFKNLDITKKKLVHEGPLTW RVTKDKAVEVHVLLDDLL
LLLQRQDERLLLKSHSRTLTPD GKTMLRPVLR L TSAMTREVATDHKAFYVLF TW DQEAQIYELVAQTVSERKN
WCALITETAGSLKVPAPASRPKPRPSPSS TREPLLSSSENGNGGRETSPADARTERILSDLLPFCRPGPEGQLAA
TALRKVLSLKQLLFP AEEDNGAGPPRDGDGVPGGGPLSPARTQEIQENLLSLEETMKQLEEELEEEFCRLRPLLSQ
LGGNSVPQPGCT

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FIGURE 5472

CCGCCGCAGCCTCTGTGCGGTGGGACCAACGGACGGACGGACGGACGGACGGACCGCGCACCTACCGAGGCGCGGGCGCTGC
AGAGGCTCCCAGCCCAAGCCTGAGCCTGAGCCCGCCCGAGGTCCCCGCCCGCCCGCTGGCTCTCTCGCCGCG
GAGCCGCCAAGATGGGGGACAAGAAAGATGACAAGGACTCACCCAAGAAGAACAAGGGCAAGGAGCGCCGGGACC
TGGATGACCTCAAGAAGGAGGTGGCTATGACAGAGCACAAGATGTCACTGGAAGAGGTCTGCCGGAATACAACA
CAGACTGTGTGCAGGGTTTGACCCACAGCAAAGGCCAGGAGATCCTGGCCCGGGATGGGCCTAACGCACTCACGC
CACCGCCTACCACCCAGAGTGGGTCAAGTTTTCGGGCGAGCTCTTCGGGGGCTTCTCCATCCTGCTGTGGATCG
GGGCTATCCTCTGCTTCTCGGCTACGGTATCCAGGCGGGCACCAGGACGACCCCTCTGGTGACAACCTGTACC
TGGGCATCGTGTGGCGGCCGTGGTGATCATCACTGGCTGCTTCTCTACTACCAGGAGGCCAAGAGCTCCAAGA
TCATGGAGTCTTCAAGAACATGGTGCCCCAGCAAGCCCTGGTGATCCGGGAAGGTGAGAAGATGCAGGTGAACG
CTGAGGAGGTGGTGGTTCGGGGACCTGGTGGAGATCAAGGGTGGAGACCGAGTGCCAGCTGACCTGCGGATCATCT
CAGCCACGGCTGCAAGGTGGACAACCTCCTCCCTGACTGGCGAATCCGAGCCCCAGACTCGCTCTCCCGACTGCA
CTCAGACAACCCCTTGAGACTCGGAACATCACCTTCTTTTCCACCAACTGTGTGGAAGGCACGGCTCGGGGCG
TGGTGGTGGCCACGGGCGACCGCACTGTCTATGGGCGGTATCGCCACCCTGGCATCAGGGCTGGAGGTGGGCAAGA
CGCCATCGCCATCGAGATTGAGCACTTCATCCAGCTCATCACCGGCGTGGCTGTCTTCTGGGTGTCTCCTTCT
TCATCCTCTCCCTCATTTCTCGGATACACCTGGCTTGAGGCTGTCTATCTTCTCATCGGCATCATCGTGGCCAATG
TCCCAGAGGTCTGCTGGCCACTGTCACTGTGTGTCTGACGCTGACCGCCAAGCGCATGGCCCCGAAGAACTGCC
TGGTGAAGAACCTGGAGGCTGTAGAAACCTGGGCTCCACGTCCACCATCTGCTCAGATAAGACAGGGACCTCA
CTCAGAACCGCATGACAGTCGCCACATGTGGTTTGACAACAGATCCACGAGGCTGACACCACTGAGGACCACT
CAGGGACCTCATTTGACAAGAGTTTCGCACACCTGGGTGGCCCTGTCTCACATCGCTGGGCTCTGCAATCGCGCTG
TCTTCAAGGTGGTTCAGGACAACATCCCTGTGCTCAAGAGGGATGTGGCTGGGGATGCGTCTGAGTCTGCCCTGC
TCAAGTGCATCGAGCTGTCTCTGGCTCCGTGAAGCTGATGCGTGAACGCAACAAGAAAGTGGCTGAGATTCCCT
TCAATTCACCAACAATAACAGCTCTCCATCCATGAGACCGAGGACCCCAACGACAACCGATACCTGCTGGTGA
TGAAGGTGCCCCGAGCGCATCCTGGACCGCTGTCTCCACCATCTGCTACAGGGCAAGGAGCAGCCTCTGGACG
AGGAAATGAAGGAGCCCTTCCAGAAATGCCTACCTTGAGCTCGGTGGCCTGGGCGAGCGCGTGTGGTTTCTGCC
ATTATTACCTGCCCGAGGAGCAGTTCCCCAAGGGCTTTGCCTTCGACTGTGATGACGTGAACCTTACCACGGACA
ACCTCTGCTTTGTGGGCTCATGTCCATGATCGACCCACCCGGGCGAGCCGTCCCTGACGCGGTGGGCAAGTGTG
GCAGCGCAGGCATCAAGGTTCATGATGACCGGCGATCACCCCATCACGGCCAAGGCCATTGCCAAGGGTGTGG
GCATCATCTCTGAGGGCAACGAGACTGTGGAGGACATCGCCCGGCTCAACATTCCCGTCAACAGGTTAACC
CCCGGGATGCCAAGGCCTGCGTGATCCACGGCACCAGCTCAAGGACTTCACTCCGAGCAAAATCGACGAGATCC
TGCAGAAATCACACCGAGATCGTCTTCGCCCGCACATCCCCCAGCAGAAGCTCATCATTTGTGGAGGGCTGTGAGA
GACAGGGTGCAATTGTGGCTGTGACCGGGGATGGTGTGAACGACTCCCCCGCTCTGAAGAAGGCCGACATTGGGG
TGGCCATGGGCATCGCTGGCTCTGACGTCTCCAAGCAGGCAGCTGACATGATCCTGCTGGACGACAACCTTGCCT
CCATCGTCACAGGGGTGGAGGAGGGCCGCTGATCTTCGACAACCTAAAGAAGTCCATTGCCTACACCCTGACCA
GCAATATCCCGGAGATCAGGCCCTTCTGCTGTTTCATCATGGCCAACATCCCGCTGCCCCTGGGCACCATCACCA
TCCTCTGCATCGATCTGGGCACTGACATGGTCCCTGCCATCTCACTGGCGTACGAGGCTGCCGAAAGCGACATCA
TGAAGAGACAGCCCAGGAACCCGCGGACGGACAAATTTGGTCAATGAGAGACTCATCAGCATGGCCTACGGGCAGA
TTGGAATGATCCAGGCTCTCGGTGGCTTCTTCTTACTTTGTGATCCTGGCAGAAAATGGCTTCTTGGCCGGCA
ACCTGGTGGGCATCCGGCTGAACTGGGATGACCGCACCGTCAATGACCTGGAAGACAGTTACGGGCAGCAGTGGA
CATACGAGCAGAGGAAGGTGGTGGAGTTACCTGCCACACGGCCTTCTTTGTGAGCATCGTTGTCTGCTCCAGTGGG
CCGATCTGATCATCTGCAAGACCCGGAGGAACCTCGGTCTTCCAGCAGGGCATGAAGAACAAGATCCTGATCTTCG
GGCTGTTTGTAGGAGACGGCCCTGGCTGCCCTTCTGTCTACTGCCCCGGCATGGACGTGGCCCTGCGCATGTACC
CTCTCAAGCCCAGCTGGTGGTTCTGTGCCCTTCCCTACAGTTTCTCTCATCTTCGTCTACGACGAAATCCGCAAC
TCATCCTGCGCAGGAACCCAGGGGGTGGGTGGAGAAGGAAACCTACTACTGACCTCAGCCCCACCACATCGCCC
ATCTCTTCCCCGTCCCCCAGGCCAGGACCGCCCTGTCACTCCCCCAATTTTGTATTCTGGGGGGAGGAGCCC
TCTCTTCTGTGGCCCCACCTTGGCCCCCACCCTCCACTATCTCTGCGCCCCCACTCTGGCTGGCTTCTCT
CCCCTGCCCCAAACCTCTCTCTCTCTTTTCTGTGTGAGTTTCTCTCCTCTCCTACCCCTCTATCCATTCC
TCCCGCCCCAGCCACCTCCCTGGGCTCTTTTTTACTCCCTTCAGCCCCCGGCTGATGCCATCTCTGGTTCTGG
ACAATTATCAATATATCAGTGGGAGAGAG

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FIGURE 5473

MGDKKDDKDSPKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLTHSKAQEILARDGPNALTPPPT
TPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTEDDPSGDNLVYLGIVLAADVITGCFSYYQEAKSSKIMES
FKNMVPQQALVIREGEKMQVNAEEVVVDLVEIKGGDRVPADLRIISAHGCKVDNSSLTGESEPQTRSPDCTHDN
PLETRNITFFSTNCVEGTARGVVVATGDRTVMGRIATLASGLEVGKTPIAIEIEHFIQLITGVAVFLGVSFFILS
LILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNR
MTVAHMFNDQIHEADTTEDQSGTSFDKSSHTWVALSHIAGLCNRAVFKGGQDNIPVLKRDVAGDASESALLKCI
ELSSGSVKLMRERNKKVAEIPFNSTNKYQLSIHETEDPNDNRYLLVMKGAPERILDRCSTILLOQKEQPLDEEMK
EAFQNAVLELGGGLGERVLGFCHYYLPPEEQFPKGFAFDCDDVNFTTDNLFCFVGLMSMIDPPRAAVPDAVGKCRSAG
IKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPRDAKACVIHGTDLDKDFTEQIDEILQNH
TEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVT
GVEEGRILFDNLKKSIAYTLTSTNIPEITPFLLFIMANIPPLGTITILCIDLGTDMPAISLAYEAAESDIMKRO
PRNPRTDKLVNERLISMAYGQIGMIQALGGFFSYFVILAENGFLPGNLVGIRLNWDDRTVNDLEDSYQQWTYEQ
RKVVEFTCHTAFFVSIVVQWADLIICKTRRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMDVALRMYPLKP
SWWFCAFPYSFLIFVYDEIRKLILRRNPGGWVEKETYY

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FIGURE 5474

CCCGAGTCTCAGGAGCCTGCCTTACAGCAGGAGGTGCAGGCCTCGTCACCTGCAGAGGTGCCTGTGTCTCAGCCT
GACCCCTTGCCAGCTTCTGACCACAGTTACGAGCTGCGCAATGGTGAAGCCATTGGGCGGGATCGCCGGGGGCGC
AGGGCCCGGAGGAACAACAGTGGAGAAGCAGGCGGGGAGCCACACAGGAGCTCTTCTGCTCAGCCTGTGACCAG
CTCTTTCTCTCACCCACCAGCTACAGCAGCACCTGCGGAGTCACCGGGAGGGCGTCTTTAAGTGCCCCCTGTGC
AGTCGTGTCTTCCCTAGCCCTTCCAGTCTGGACCAGCACCTTGGAGACCATAGCAGCGAGTCACACTTCCTGTGT
GTAGACTGTGGCCTGGCCTTCGGCACAGAGGCCCTCCTCCTGGCCACCGGCGAGCCACACCCCGAATCCTCTG
CATTATGTCCATGTGGGAAGACCTTTGTCAACCTTACCAAGTTCCTTTATCACCGCGTACTCATGGGGTAGGG
GGTGTCCCTCTGCCCACAACACCAGTCCCACCAGAGGAACCTGTCTTGGTTTCCCTGAGCCAGCCCCAGCAGAG
ACTGGAGAGCCAGAGGCCCTTGAGCCCCCTGTGTCTGAGGAGACCTCAGCAGGGCCCGCTGCCCCAGGCACCTAC
CGCTGCCTCCTGTGCAGCCGTGAATTTGGAAAGGCCTTGACAGCTGACCCGGCACCAACGTTTTGTGCATCGGCTG
GAGCGGCGCCATAAATGCAGCATTGTGGCAAGATGTTCAAGAAGAAGTCTCACGTGCGTAACCACTGCGCACA
CACACAGGGGAGCGGCCCTTCCCCTGCCCTGACTGCTCCAAGCCCTTCAACTCACCTGCCAACCTGGCCCGCCAC
CGGCTCACACACACAGGAGAGCGGCCCTACCGGTGTGGGACTGTGGCAAGGCTTTCACGCAAGGCTCCCACTG
AGGCAGCACCGCTTGGTGCATGCCAGCACTTCCCCTACCGCTGCCAGGAATGTGGGGTGCGTTTTACCGTCCCT
TACCGCCTGCTCATGCACCGCTACCATCACACAGGTGAATACCCCTACAAGTGTGCGGAGTGCCCCCGCTCCTTC
TTGCTGCGTGGCTGCTGGAGGTGCACAGCTCGTGGTCCATGCCGGGCGCCAGCCCCACCGCTGCCCATCCTGT
GGGGCTGCCTTCCCCTCCTCACTGCGGCTCCGGGAGCACCGCTGTGCAGCCGCTGCTGCCAGGCCCCACGGCGC
TTTGAGTGTGGCACCTGTGGCAAGAAAGTGGGCTCAGCTGCTCGACTGCAGGCACACGAGGCGGCCCATGCAGCT
GCTGGGCTGGAGAGGTCTGGCTAAGGAGCCCCCTGCCCTCGAGCCCCACGGGCCACTCGTGACCAAGTTGCC
TCTCCAGCAGCCCTTGGAAGCACTGCTACAGCATCCCCTGCGGCCCTGCCCGCCGCCGGGGTCTAGAGTGCAGC
GAGTGCAAGAAGCTGTTTACGACAGAGACGTCACTGCAGGTGCACCGGCGCATCCACACAGGTGAGCGGCCATAC
CCATGTCCAGACTGTGGCAAAGCGTTCCGTAGAGTACCCACCTGAAAGACCACCGGCGCCTGCACACAGGTGAG
CGGCCCTTTGCTGTGAAGTGTGTGGCAAGGCCTTTGCCATCTCCATGCGCCTGGCAGAACATCGCCGCATCCAC
ACAGGCGAACGACCCTACTCCTGCCCTGACTGTGGCAAGAGCTACCGCTCCTTCTCAACCTCTGGAAGCACCGC
AAGACCCATCAGCAGCAGCATCAGGCAGCTGTGCGGCAGCAGCTGGCAGAGGCGGAGGCTGCCGTTGGCCTGGCC
GTCTAGGAGACTGCTGTGGAGGCGCTACCCCTGGTGGAAAGCCATTGAGATCTACCTCTGGCCGAGGCTGAGGGG
GTCCAGATCAGTGGCTGACTCTGCCGACTTCCTCTTTGGCACCTCCATTCCCTGTGTGTAAGGCCCTCCAGCA
TCCCCTTAAGCATCTGTACATACTGTGTCCCTTCCTCTTCCCATCCCCACCCTTGTAAGTTCTAAATTGGATT
TATTCTCTCGTGAGGGGGGTGCTCTGGGGTCCCTTGACACACATAAAGGTGCCCCCCACCTTCCACCTCTTAGCA
CTGGTGACCCAAAAATGAAACCATCAATAAAGACTGGGTTGCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 5475

MFKKKSHVRNHLRTHHTGERPFPCPDCSKPFNSPANLARHRLTHHTGERPYRCGDCGKAFTQSSTLRQHRLVHAQHF
PYRCQECGVRFHRPYRLLMHRYHHTGEYPYKCRECPRSFLRLRLLEVHQLVVHAGRQPHRCPSCGAAFPSSLRLR
EHRCAAAAAQAPRRFECGTCGKKVGSAAARLQAHEAAHAAAGPGEVLAKEPPAPRAPRATRAPVASPAALGSTATA
SPAAPARRRGLECECKKLFSTETSLQVHRRHTGERPYPCPDCGKAFRQSTHLKDHRRRLHTGERPFACEVCGKA
FAISMRLAEHRRHTGERPYSCPDCGKSYSFSLWKKHRKTHQQQHQAQAVRQQLAEAEAAVGLAVMETAVEALPL
VEAIEIYPLAEAEQVQISG

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TCTGAGAGGCGAGGCCGGGTGAGGCGGCGAGGGCGGCCGACAGGGCGCGGGACGGGACGGGGACGCGAGGGCGCC
GGGAGCCGCGGCCCGGAATCGGGGCGCTTCGCCCCGGGCCCCCCAGCA**ATGA**AGACCCCGGCGGACACAGGGTTTG
CCTTCCCGGATTGGGCCCTACAAGCCAGAGTCGTCCCTGGCTCAAGGCAGATCCAGCTGTGGCACTTTATCCTGG
AGCTGCTGCGGAAGGAGGAGTACCAGGGCGTCATTGCCTGGCAGGGGGACTACGGGAATTTCGTATCAAAGACC
CTGATGAGGTGGCCCGGCTGTGGGGCGTTGCAAGTGCAAGCCCCAGATGAATTACGACAAGCTGAGCCGGGCC
TGCGCTATTACTATAACAAGCGCATTCTGCACAAGACCAAGGGGAAACGGTTCACCTACAAGTTCAATTTCAACA
AACTGGTGCTGGTCAATTACCCATTCAATTGATGTGGGGTTGGCTGGGGGTGCAGTGCCCCAGAGTGCCCCGCCAG
TGCCGTGGGTGGTAGCCACTTCCGCTTCCCTCCCTCAACGCCCTCCGAGGTGCTGTCCCCACCGAGGACCCCC
GCTACCACCAGCCTGCTCTTCATCTTCATCTTCCCTCTTCTCGGCTGTGGTGGCCCGCCGCTGGGCCGAGGCT
CAGTCAGTGACTGTAGTGATGGCACGTGAGAGCTGGAGGAACCGCTGGGAGAGGATCCCCGCGCCCGACCAACCG
GCCCTCCGGATCTGGGTGCCTTCCGAGGGCCCCGCTGGCCCGCTGCCCATGACCCTGGTGTCTTCCGAGTCT
ATCCCCGGCCTCGGGGTGGCCCTGAACCCCTCAGCCCCCTCCCTGTGTGCGCTCTGGCCGGTCTTGGATCCCTGC
TGCCCCCTCAGCTCTCCCCGGCTCTGCCCATGACGCCACCCACCTGGCCTACACTCCCTCGCCACGCTGAGCC
CGATGTACCCAGTGGTGGCGGGGGGCCAGCGGCTCAGGGGGAGGCTCCCACTTCTCCTTCAGCCCTGAGGACA
TGAAACGGTACCTGCAGGCCACACCCAAAGCGTCTACAACTACCACCTCAGCCCCCGCGCCTTCTTGCATACC
CTGGGCTGGTGGTGCCCCAGCCCCAGCGCCCTGACAAGTGCCCGCTGCCGCCCATGGCACCCGAGACCCACCGG
TCCCTCCTCGGCCCTGTCATCCTCTTCTTCTTCTTCTTCCCTCCCATTCAGTTTAAGCTCCAGCGGCCCCCACTCG
GACGCCGGCAGCGGGCAGCTGGGGAGAAGGCCGTAGCCGCTGCTGACAAGAGCGGTGGCAGTGAGCGGGGCTGG
CTGAGGGGGCAGGGGCGCTAGCCCCACCGCCCCGCCACCACAGATCAAGGTGGAGCCCATCTCGGAAGGCGAGT
CGGAGGAGGTAGAGGTGACTGACATCAGTGATGAGGATGAGGAAGACGGGGAGGTGTTCAAGACGCCCCGTGCC
CACCTGCACCCCTAAGCCTGAGCCCGGCGAGGCACCCGGGGCATCCAGTGATGCCCTCAAGCTACGCTTTA
AGCGGCGCTGGAGTGAAGACTGTGCGCTCGAAGGGGGTGGGGGGCCCCGCTGGGGGGCTTTGAGGATGAGGGTGAGG
ACAAGAAGGTGCGTGGGGAGGGGCCCTGGGGAGGCTGGGGGGGCCCTCACCCCAAGGCGGGTGAGCTCTGACCTCC
AGCATGCCACGGCCAGCTCTCCCTGGAGCACCGAGACTCT**TG**AGGGCTGTGGGCAGGGGACCTGTGTGCCCGC
ACCCCCATGCTTCTTTTGCTGCCTTAAGCCCCCTATGCCCTGGAGGTGAGGGCAGCTCTCTTGTCTCTTCCCTG
CTCCTCCCTTTTCCCTCCCCACATTTTGTATAAACTTTAATTTCTTTTTTTTAAAAATGGTGGGGGTGGGTGG
GTGCCCAGGGCTAGGGGCTATTCCCTGTCTCTGTGGGTTTCTAAGCTCTGGGCAAATTGGTGGTAGGGGGAGGGA
GGGGGAAGTTAAGGGGTACCTCCATTCTGGGGAATTTATATTTGAATTGAGGCTTTGGCCTTAACACCCAGGA
ACTTTTCTATTACAATCGCTTAGGAAGTAAAGCCTTGCTCCTCCCTGTTCTCTGCCTCTTGTACCCCTCTGAC
CCACCCGCTCTGCCCCACTCCAGCCCTCCTCAGCCCCAGCCCTGCCTGCCCTGCCCTCCAGGGGGCATGAGT
GCCTAGGTTTCTCATACCCACAAGGTACAGCAGGGGAGGGAGGGACAATTTTATAATGAACCAAAATTCAT
GTGTTGGGGGTTGGGGGGCGAGGAGGTTGAGGGTGCCGCCCATGGGCCACAAATCTCTACAAGTGCTTGCTAT
CCTCTGGGACTCCCCACCCAGCAGCCGTTCAACCCCTCATCCCCAGCTGCTCCTAGGACTGGCCCATGGGCA
GGCGGGTGGGGGGATGGGAAGGGGTGCCCTGAAACCAAACTGGAAGCCCCCTCTGCCTCCAGCTGGGGCCTCT
GGGGTGGGGTGGGGGGCTGTGGTCAAGCCTTATTCTGTATTGGGGACTGAGGGTGGGGGGAGTAGAGGGGCCGT
GGAGAAATGTATTCAAAACAATAAACTTTGGACCTTTGGAAAA

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FIGURE 5477

MKTPADTGFAFPDWAYKPESSPGSRQIQLWHFILELLRKEEYQGVIAWQGDYGEFVIKDPDEVARLWGVRKCKPQ
MNYDKLSRALRYYYNKRIHKTGKRFTYKFNFNKLVLVNYPFIDVGLAGGAVPQSAPPVPSSGGSHFRFPSTPS
EVLSPTEPRSPACSSSSSSSLFSAVVARRLGRGSVSDCSDGTSELEPLGEDPRARPPGPPDLGAFRGPPPLARL
PHDPGVFRVYPRPRGGPEPLSPFPVSPLAGPGSLLPPQLSPALPMTPTHLAYTPSPTLSPMYPSSGGGGPSGSGGG
SHFSFSPEDMKRYLQAHTQSVYNYHLSPRAFLHYPGLVVPQQRPDKCPLPPMAPETPPVPSSASSSSSSSSSPF
KFKLQRPPLGRRQRAAGEKAVAAADKSGGSAGGLAEGAGALAPPPPPQIKVEPISEGESEEEVTDISDEDEED
GEVFKTPRAPPAPPKPEPGEAPGASQCMPLKLRFKRRWSEDCRLEGGGGPAGGFEDGEDKKVRGEGPGEAGGPL
TPRRVSSDLQHATAQLSLEHRDS

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FIGURE 5478

AGCCGTGCTCAGAAAGTTTCTGGATCCCAGGCTCATCTCCACAGAGGAGAACACGCAGGCAGCAGAGACCATGGG
GCCCATCTCAGCCCCTTCCTGCAGATGGCGCATCCCCTGGCAGGGGCTCCTGCTCACAGCCTCACTTTTCACCTT
CTGGAACCCGCCCACCCTGCTCAGCTCACTATTGAAGCTGTGCCATCCAATGCTGCAGAGGGGAAGGAGGTTCT
TCTACTTGTCCACAATCTGCCCCAGGACCCTCGTGGCTACAACCTGGTACAAAGGGGAAACAGTGGATGCCAACCG
TCGAATTATAGGATATGTAATATCAAATCAACAGATTACCCCAGGGCCTGCATACAGCAATCGAGAGACAATATA
CCCCAATGCATCCCTGCTGATGCGGAACGTACCAGAAATGACACAGGATCCTACACCCTACAAGTCATAAAGCT
AAATCTTATGAGTGAAGAAGTAACCTGGCCAGTTTACGCGTACATCCGGAGACTCCCAAGCCCTCCATCTCCAGCAA
CAACTCCAACCCCGTGGAGGACAAGGATGCTGTGGCCTTACCTGTGAACCTGAGACTCAGAACACAACCTACCT
GTGGTGGGTAAATGGTCAGAGTCTCCCGGTGAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCT
ACTCAGTGTACAAAGGAATGACGTAGGACCCTATGAATGTGAAATACAGAACCCAGCGAGTGCAAACTTCAGTGA
CCCAGTCACCCCTGAATGTCTCTATGGCCCAGATGCCCCCACCATTTCCTTCAGACACCTATTACCATGCAGG
GGTAAATCTCAACCTCTCCTGCCATGCGGCCTCTAATCCACCCTCACAGTATTCTTGGTCTGTCAATGGCACATT
CCAGCAATACACACAAAAGCTCTTTATCCCCAACATCACTACAAAGAACAGCGGATCCTATGCCTGCCACACCAC
TAACTCAGCCACTGGCCGCAACAGGACCACAGTCAGGATGATCACAGTCTCTGATGCTTTAGTACAAGGAAGTTC
TCCTGGCCTCTCAGCTAGAGCCACTGTGAGCATCATGATTGGAGTACTGGCCAGGGTGGCTCTGATATAGTAGCT
CTGGTGTAGTTTCTGCATTTCAAGAAGACTGGCAGACAGTTGTTTTTATTCTTCTCAAAGCATTGCAATCAGC
TACCATTCAAATTTGCTTCTTCTTCAAGATTTATGGAAAATACTCTGACGAGTACTCTTGAACACAAGTTTCTGA
TAACTTTAAGATCACGCCACTGGACTGTCTATGAACCTTGCAAACAGGCTGATACCTTTGTGAAGTTGCCACCAA
AACACAGAAGGAAAAAACATGAATTTTATTGAACATAATAATGAGGATAATGTTTTTAAGATTTTTTTTTT
TTTTTGAGATGGAATCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCACGATCTCAACTCACTGCAAGCTCCGC
CTCCTGGGTTTACACCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCCTGCCACAACGCCCGG
CTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACTGTGGTCTCAATCTCCTGACTTCATGGTCCGCCTGCCT
CAGCCTCCCAAAGTTCTGGGATTACAGGTGTGAGCCACCGCGCCAGCCCGTTTTTAAGATTTTTTATTTGAAAA
ATTGCCAATTCTTTAAGTGTTTTCTTTTTTCAAGTTTATGAATTTCTTTATCTTTTAAGCTATCTATACCTTACTG
CAATTTGGTAAAGCAGACTTTTGTGAACAAAAATTATAACATTTACTTTTGCTCCCTACCTGACTGCCACAGAAC
TGGGCAACTATTTCATGAGTATTCATATGTTTATGGTAATTCAGTTATTTGCACAAGTTCACTGAGAATCTGCTGT
CTTTATAATGGGATATAGTTTAAACATTGGTTATATTACCAAGGCTTTGATTGGGATGTTATATTTGAGAAAA
ACAGAGAATGATAGATTAAACGGAGTGTCTAATCTATCGTGTCAACCCCAAATTTTACGTATGAGATCCTTTAGT
CCACCCAATGGCTGACAGTAACAGCATCTTTAACACAACCTTTGTTCAAATGTACTATGGTCTCTTTTAGAGTC
AGACTCCTAGACTCACTTGTCTCACTGTCTGTTTAAATTTAACCCAGGCATGCAATGCTAGATAATAAAATTGC
TCCCTATTGGCTGATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5479

MGPISAPSCRWRIPWQGLLLTASLFTFWNPPTTAQLTIEAVPSNAAEGKEVLLL VHNLPQDPRGYNWYKGETVDA
NRRIIGYVISNQQITPGPAYSNRETIYPNASLLMRNVTRNDTGSYTLQVIKLNLMSEEV TGQFSVHPETPKPSIS
SNNSNPVEDKDAVAFTCEPETQNTTYLWWVNGQSLPVSPRLQLSNGNRTLTL LSVTRNDVGPIECEIQNPASANF
SDPVTLNVLYGPDAPTISP SDTYHAGVNLNLSCHAASNPPSQYSWSVNGTFQQYTQKLFIPNITTKNSGSYACH
TTNSATGRNRRTTVRMITVSDALVQGSSPGLSARATVSIMIGVLARVALI

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FIGURE 5480

ATGATGGCGTATATGAACCCGGGGCCCCACTATTCTGTCAACGCCTTGGCCCTAAGTGGCCCCAGTGTGGATCTG
ATGCACCAGGCTGTGCCCTACCCAAGCGCCCCCAGGAAGCAGCGGGGAGCGCACCACCTTCACCCGGAGCCAA
CTGGAGGAGCTGGAGGCACTGTTTGCCAAGACCCAGTACCCAGACGTCTATGCCCCGTGAGGAGGTGGCTCTGAAG
ATCAATCTGCCTGAGTCCAGGGTTTCAAGTTTGGTTCAAGAACCGGAGGGCTAAATGCAGGCAGCAGCGACAGCAG
CAGAAACAGCAGCAGCAGCCCCAGGGGGCCAGGCCAAGGCCCCGGCCTGCCAAGAGGAAGGCGGGCACGTCCCCA
AGACCCTCCACAGATGTGTGTCCAGACCCTCTGGGCATCTCAGATTCCCTACAGTCCCCCTCTGCCCCGGCCCCCTCA
GGCTCCCCAACCACGGCAGTGGCCACTGTGTCCATCTGGAGCCCAGCCTCAGAGTCCCCCTTGCCCTGAGGCGCAG
CGGGCTGGGCTGGTGGCCTCAGGGCCGTCTCTGACCTCCGCCCCCTATGCCATGACCTACGCCCCGGCCTCCGCT
TTCTGCTCTTCCCCCTCCGCCTATGGGTCTCCGAGCTCCTATTTAGCGGCCTAGACCCCTACCTTTCTCCCATG
GTGCCCCAGCTAGGGGGCCCGGCTCTTAGCCCCCTCTCTGGCCCCCTCCGTGGGACCTTCCCTGGCCCCAGTCCCCC
ACCTCCCTATCAGGCCAGAGCTATGGCGCCTACAGCCCCGTGGATAGCTTGGAATTCAAGGACCCACGGGCACC
TGGAATTACCTACAATCCCATGGACCCTCTGGACTACAAGGATCAGAGTGCCTGGAAGTTTCAGATCTTGTAG

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FIGURE 5481

MMAYMNP GPHYSVNALALSGPSVDLMHQAVPYPSAPRKQRRERTTFTRSQLEELEALFAKTQYPDVIYAREEVALK
INLPESRVQVWFKNRRAKCRQQRQQQKQQQPPGGQAKARPAKRKAGTSPRPSTDVCPDPLGISDSYSPPLPGPS
GSPTTAVATVSIWSPASESPLPEAQ RAGLVASGPSLT SAPYAMTYAPASAFCS SPSAYGSPSSYFSGLDPYLSPM
VPQLGGPALSP LSGPSVGPSLAQSPTSLSGQSYGAYSPVDSLEFKDPTGTWKFTYNPMDPLDYKDQSAWKFAQIL

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FIGURE 5482

TGACAAGATGGCGGCAGGAGGCAGTGGCGTTGGTGGGAAGCGCAGCTCGAAAAGCGATGCCGATTCTGGTTTCCT
GGGGCTGCGGGCCCACTTCGGTGGACCCAGCGCTGAGGCGGCGGCGGCGAGGCCCAAGAAATAAGAAGCGGGGCTG
GCGGCGGCTTGCTCAGGAGCCGCTGGGGCTGGAGGTTGACCACTTCCTGGAAGACGTGCGGCTACAGGAGCGCAC
GAGCGGTGGCTTGTTGTCTCAGAGGCCCAATGAAAACTCTTCTTCGTGGACACTGGCTCCAAGGAAAAAGGGCT
GACAAAGAAGAGAACCAAGTCCAGAAGAAGTCACTGCTTCTCAAGAAACCCCTTCGGGTTGACCTCATCTCGA
GAACACATCCAAAGTCCCTGCCCAAGACGTCTCTCGCCACCAAGGTCCCCAACGCCAAGAAGCTCAGGCGGAA
GGAGCAGCTATGGGAGAAGCTGGCCAAGCAGGGCGAGCTGCCCCGGGAGGTGCGCAGGGCCCAAGGCCGCTCCT
CAACCTTCTGCAACAAGGGCCAAGCCCGGGCCCCAGGACACCGTAGAGCGGCCCTTCTACGACCTCTGGGCCTC
AGACAACCCCTGGACAGGCCGTTGGTTGGCCAGGATGAGTTTTCTTGGAGCAGACCAAGAAGAAAGGAGTGAA
GCGGCCAGCACGCTGCACACCAAGCCGTCCAGGCACCCGCCGTGGAGGTGGCGCCTGCCGGAGCTTCCTACAA
TCCATCCTTTGAAGACCACAGACCTGCTCTCAGCGGCCACAGAGGTGGAGTTGCAGCGGCAGAAGGAGGCGGA
GAAGCTGGAGCGGCAGCTGGCCCTGCCCGCCACGGAGCAGGCCGCCACCCAGGAGTCCACATTCCAGGAGCTGTG
CGAGGGGCTGCTGGAGGAGTCGGATGGTGAGGGGGAGCCAGGCCAGGGCGAGGGGCCGGAGGCTGGGGATGCCGA
GGTCTGTCCACGCCCCGCCCGCTGGCCACCACAGAGAAGAAGACGGAGCAGCAGCGGCGGCGGAGAGGCTGT
GCACAGGCTGCGGGTACAGCAGGCCGCGTTGCGGGCCGCCCGGCTCCGGCACCAAGGAGCTGTTCCGGCTGCGCGG
GATCAAGGCCCAGGTGGCCCTGAGGCTGGCGGAGCTGGCGCGGCGGCAGAGGCGGCGGCAGGCGCGGCGGAGGC
TGAGGCTGACAAGCCCCGAAGGCTGGGGCGGCTCAAGTACCAGGCACCTGACATCGACGTGCAGCTGAGCTCGGA
GCTGACAGACTCGCTCAGGACCTGAAGCCGAGGGCAACATCCTTCGAGACCGGTTCAAGAGCTTCCAGAGGAG
GAATATGATCGAGCCTCGAGAGAGAGCCAAGTTCAAACGCAAGTACAAGGTGAAGCTGGTGGAGAAGCGGGCGTT
CCGTGAGATCCAGTTGTAGCTGCCATCAGATGCCGGAGACTCGCCCTTCAATAAAAAATCTCTTCTAGCTG

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FIGURE 5483

CGTCTCTCCGTGAACCCCGTGAGCGGTGTGCAGCCACCATGTTACAGCTGGCTGAAGCGGGGCGGGGCGACGGGGCC
AGCAGCCCCGAGGCCATCCGCACGGTGACCTCGGCCCTCAAGGAGCTGTACCGCACGAAGCTGCTGCCGCTGGAGG
AGCACTACCGCTTTGGGGCCTTCCACTCGCCGGCCCTGGAGGACGCAGACTTCGACGGCAAGCCCCATGGTGCTGG
TGGCCGGCCAGTACAGCACGGGCAAGACCAGCTTCATCCAGTACCTGCTGGAGCAGGAGGTGCCCGGCTCCCCGCG
TGGGGCCTGAGCCCCACCACCGACTGCTTTGTGGCCGTGATGCACGGGGACACTGAGGGCACCGTGCCCGGCAACG
CCCTCGTCTGGACCCGGACAAGCCCTTCCGCAAACTCAACCCCTTTCGGAAACACCTTCCTCAACAGGTTTCATGT
GTGCCAGCTCCCTAATCAGGTCTGGAGAGCATCAGCATCATCGACACCCCGGGTATCCTGTGCGGGTGCCAAGC
AGAGAGTGAGCCGCGGCTACGACTTCCCGGCCGTGCTGCGCTGGTTTCGCGGAGCGCGTGACCTCATCATCCTGC
TCTTTGATGCGCACAAAGCTGGAGATCTCGGACGAGTTCTCAGAGGCCATCGGCGCGTTGCGGGGCCATGAGGACA
AGATCCGCGTGGTGCTCAACAAGGCCGACATGGTGGAGACGCAGCAGCTGATGCGCGTCTACGGCGCGCTCATGT
GGGCGCTGGGCAAGGTGGTGGGCACGCCGAGGTGCTGCGCGTCTACATCGGCTCCTTCTGGTCCCAGCCCCCTCC
TCGTGCCGACAACCGGCGCCTCTTCGAGCTGGAGGAGCAGGACCTCTTCCGCGACATCCAGGGCCTGCCCGGCG
ACGCAGCCTTGCGCAAGCTCAACGACCTGGTGAAGAGGGCCCGGCTGGTGCGAGTTACGCTTACATCATCAGCT
ACCTGAAGAAGGAGATGCCCTCTGTGTTTGGGAAGGAGAAACAAGAAGAGCAGCTGATCCTCAAACCTGCCCGTCA
TCTTTGCGAAGATTACAGCTGGAACATCAGCTCTCCCTGGGGACTTTCCTGATTGCCAGAAAATGCAGGAGCTGC
TGATGGCGCACGACTTCACCAAGTTTCACTCGCTGAAGCCGAAGCTGCTAGAGGCACTGGACGAGATGCTGACGC
ACGACATCGCCAAGCTCATGCCCCTGCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGAGGGGGGCG
CTTTTGAGGGCACCCACATGGGCCCGTTTGTGGAGCGGGGACCTGACGAGGCCATGGAGGACGGCGAGGAGGGCT
CGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAAATACGACGAGATCTTCTACAACCTGGCGCCTG
CCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCTGGATGGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGC
GCATCTGGAAGCTCAGCGATGTGGACCGCGACGGCATGCTGGATGATGAGGAGTTCGCGCTGGCCAGCCACCTCA
TCGAGGCCAAGCTGGAAGGCCACGGGCTGCCCGCAACCTGCCCCGTGCGCTGGTGCCACCCTCCAAGCGACGCC
ACAAGGGCTCCGCCGAGTGAGCCGGCCCCCTCCCATGGCCCTGCTGTGGCTCCCCAGCTCCAGTCGGCTGCACG
CACACCCCTGCTCCGGCTCACACACGCCCTGCCTGCCCTCCCTGCCAGCTGTAAGGACCGGGGGTCTCCCTCCT
CACTACCGCCAGACACCCCGGTGGAAGCATTAGAGGGGACCACGGGAGGGACAAGGCTTCTCTGTCCGCCCTTC
ACACCTCCAGCCTCACGTTCACTTAGGCACATCACACACACTGGCACACGCAGGCATCCATCCATCCGTCAAT
CATTCAAATATTTATTGAGCACCTACTATGTGCCAGCCCTGTTCTAGGCACTGGGCATTACCATAGAGAACAAA
ATAGACAAATACATCTGCCCTCATGGAAGGTGACGTTCCAGGAGAGGGCACCTACACAGTCACGCAAACACACA
CTAATTCCTGGCAGGGCCCCAGCCCCCTCCCTGGCTGAGCAGCCCTGTGGCTGAAATGACTAGCAGATAAACAG

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FIGURE 5484A

CTCGTAGCTCCACTCTGCAGCCTCAAACCTCCTGGGCTCCAGTGATCCTCTCACCTCAGCCTCCCAAGTAGCTAAG
ACCACAGGCACATGCTGCCACCCCTGACTAATTTTTCTTTTTTAAAAATTTTTTCTCACTGCGTTGCCAGGCTG
GTCTCAAACCTCTTTGGCTCAAGCCATCCATCCTCCTACCTCAGCCTCCCAAAGTGCTGAGATTACAAGCGTGAAC
CACCATGCCAGGAGGGAATGTTCTTTCTTGAACGTGGCTGCCCTGTACCTCAGCATTCTTTGCGGCAGCTGTGG
CCTAAGCGTAGCCCCCTTGCTAACCTCAGCTCTTTCTTCCACCTTTCCCGGCCTGCAGCTCCATGTGCAAGAAG
CTTCCGGCAACCACCTGAACCCAGAGCCCAACCAGCCGGCCCCCAGTGTGGACCTAGACTTCTTGAAGATGACA
TCCTGGGCTCTCCTGCGACAGGGGGCGGGCGGGGGGAGTGGGGGCGCTGACCAGCCCTGTGACATCCTCCAGC
AGAGCCTCCAAGAGGCCAACATCACGGAGCAGACGCTGGAGGCCGAGGCTGAGCTGGACCTGGGTCCCTTCCAGC
TGCCACCCCTGCAGCCTGCGGATGGCGGGGCGAGGCCGACGGGCGCTGGAGGGGCGAGCGGCCGTGGCTGCGGGG
CCCAAGCCCTCTTCCAGGCAGCACCGACCTGCTGGGGCTGCAGGGCCCGCTACCGTGCTGACCCACAGGCC
TGGTGCCGCCCCAGGACGTGGTCAACAAGGCCCTGAGTGTGCAGCCCTTCTTGCAGCCTGTGGGCTGGGCAATG
TGACACTGCAGCCCATCCCGGGCTCCAAGGCCTGCCAATGGCAGCCCTGGGGGTGCCACGGCGGCCACACTGG
GCCTGGCGCCCATCCAGGTGGTGGGCCAGCCGTCATGGCGCTCAACACGCCCACCTCCAGCTCCTGGCCAAGC
AGGTGCCGCTCAGCGGCTACCTGGCCTCGGCGGCTGGCCCCCTCGGAGCCCGTGACGCTGGCGTGGCCGGTGTCT
CGCCACAGGGGGCTGGCCTGGTCAACAGAACCTCTCGGCCGCTGTGGCCACCACGCTCAATGGGAACCTGT
TGTTCCGAGGCGCGGGGGCGCCTCGGCTCCACCGGGACGCCCTCGGGACAGCCGCTGGCGGTGGCCCCAGGCC
TCGGCTCGTCGCCACTGGTCCCGGCGCCCAACGTGATCCTGCATCGCACACCCACGCCCATCCAGCCCAAGCCG
CGGGGTGCTGCCGCCAAGCTCTACAGCTGACGCCCAAGCCGTTTGCGCCGCGGGCGCCACGCTCACCATCC
AGGGCGAGCCGGGGCGCTCCCGCAGCAGCCCAAGGCCCGCAGAACCTGACGTTTATGGCGGCGGGGAAGGCGG
GCCAGAAGTGGTGTGTGGGCTTCCCCGCGCTGCGCTGCAAGCGAACGTCTTCAAGCAGCCACCGGCCACCA
CCACCGGAGCGGGCCCGCCGACGCCCCCGGGGCCCTGAGCAAACCCATGAGCGTCCACCTCCTGAACCAAGGCA
GCAGCATCGTCATCCCCGCCAGCACATGCTGCCGGGCCAGAACAGTTCCTACTGCCTGGCGCCCCGGCGGTCC
AGTCCCGCAGCAGCTCTCAGCCCTGCCGGCCAACGTGGGCGGGCAGATCCTGGCGGCCGCTGCCCCCAGCAG
GTGGACAGTCTATCGCGAACCCATCTCACAAACAGAACCTGGCGGGCCACTGAGCCTGGGCCCCGTGTGG
CCCCCACTCCGGGGCCACAGCGCGCACATCCTCTCCGCCGCTCCCATCCAGGTGGGCCAGCCTGCGCTCTTCC
AGATGCCCGTGTGCTGGCGGGGAGCCGCTGCCACGCGAGCCAGCCAGCGCCCGCGGGCGGGCGGCCACCA
CTGTCTCCAGGGGGTACCCTGCCCCCCAGCCGCTGGCCATGCTCAACACCCCCGACGGCCTGGTGCAGCCGG
CCACCCCTGCCGCTGCCACCGGGGAGGCGCGCTGTCTACGGTGCAGCCTGCCCCCAGGCGCCCCCGCGG
TCAGCACACCCCTGCCCCCTGGGCCCTCAGCAGCCGCGAGGCGCAGCCCGCCAGGCCCCCAGCCCAAGCCG
CCGCCCCGCTCAGGCCACCACCCCCAGCCAGCCCTGGCCTGGCCTGAGCCCGGAGAAGATGCTCCTGGGGC
AGCCGCCCTCTGCCACCCCCACGGCCATCCTCACTCAGGACTCCCTGCAGATGTTCTGCCCCAGGAGAGGAGCC
AGCAGCCCTCTCCGAGAGGGCCCCACCTCTCCGTGCTGCTCGGTCATAGTCAGCGCCCCGCTCCCGCC
AAGACCCAGCCCCAGCCACCCCCGTGCCAAAGGAGTGGCCTCGGCCCTCAGGCCCCGACAGCCAGGCTTCC
CGGCTCCGGCCCCCAGATCCCGGCAGCGGCTCCGCTGAAGGGCCAGGCCCTCTTCTGCTCCCGTCACTACCTC
ACCAGGCCCTCTGGGGGACAGCCCCACCTGCCCTCCCCACACCCACCCGGCCCCCTTCCCGCCACCCCTCC
GGCCACAGAGTGTGTCCGCCCTCCCTCAGAGCCACCCTTGACCCCTTGCCCCCAGCCAGCCCCCAACTC
TGCTTGGCATCTTTGTATCCAAAACAGCTAGGCGTTCCCCCGCTGCCAGCAACCCGGCCCCCTACTGCCCCAG
GCCGCGCAGCGCCTCTCCGCCCCAGTCCAGCGCCTGAGGGACCGCTGCCCCAGCCCCCAGCTCCCTC
CATCTCCACCTCTCTGCTGTGGCTCTCTCTGAGACGTCCTCCAGGTTGCCAGCCCCACGCCATCCGACT
TCCAGCTCCAGTTCCACCCAGCCAGGGGCCCCACAAGTCCCCCACTCCCCCTCCAACCTCCACCTGGTCCCTG
AGCCGGCAGACCCCCCCCCACCGCCTCTCGGACCTTCCAGATGGTGACACCCCTTCCAGCGCTGCCCCAGC
CGAAGGCTCTTCTCGAGAGATTTACACAGGTGCCGTCCGGAATCATCTCCAGAACAAGGCTGGGGGGGCCCCG
CCGCCCCGAGACCTCCACAGCCTGGGGCCCCCTACAGCCCCGCTGCGTCTGTGCTGGTCAAGTGGCAGGCC
CATCTGGGACCCCCACTGCCCCAGCCACGCCCCCGCCCCGACCCATGGCCGCCACAGGCTCCCTCTCTGC
TTCCAGCCGAGAACAAGGCTTTTGCCAGCAACCTCCGACCCTGAATGTGGCCAAGGCCGCTTCTCCGGGCCAG
GGAAGCCCTCCGGGCTGCAGTATGAGAGCAAACTGAGTGGCCTGAAGAAGCCCCCAGGCTTACGCCAGCAAGG
AAGCCTGTTTCTGGAGCATTTGCACAAACACAGGGCTCCGCTCTGCACCCCGACTACAAGACGGCCTTCCCT
CCTTTGAGGACGCCCTGCATCGCCTCCTGCCCTACCATGTCTACCAGGGCGCCCTCCCTCCCCAGTGACTACC

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FIGURE 5484B

ACAAAGTGGACGAGGAGTTTGAGACGGTCTCCACGCAGCTGCTGAAACGCACCCAGGCCATGCTCAATAAATATC
GGTCCTGCTCCTGGAGGAGTCCCGGAGGGTGAGCCCCCTCAGCGGAGATGGTAATGATCGACCGAATGTTTCATTC
AGGAGGAGAAGACCACCCCTTGCCCTTGAGATAAACAGCTGGCCAAGGAGAAGCCGGACGAGTACGTGTCTTCTCCC
GCTCGCTCGGCCTCCCCATCGCAGCCTCTTCCGAGGGTTCATCGGCTTCCCGGCCACGGCCCCCTGTGCTCTTCAG
CTCCCGGGGCTCCACCCAGCCCCCTCCACACCTGCCACCAAGCTTGTGATCCGGCACGGCGGGGACGGCGGGCT
CCCCTTCGGTCACCTGGGGCCGGGGCTCCTCCTCCTGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT
TGGACGCCGACGAGGACGGCCCCATGCCCTCCCGCAACCGCCCCGCCATCAAGACCTACGAGGCCCGGAGCCGCA
TCGGGCTCAAGCTCAAGATCAAGCAGGAAGCCGGGCTCAGCAAGGTTCGTGCACAACACGGCCCTGGACCCCGTGC
ACCAGCCCCCGCCACCCCCCGCTACCCCTCAAGGTGGCCGAGCCCCCGCCACGGCCGCCACCCACCCGCCGCCA
CGGGCCAGATGAACGGCACGGTGGACCACCCGCCGCTGCCGCCCGGAGCGCAAGCCCCCTGGGCACCGCCCCGC
ACTGCCCGCGCCTGCCACTGCGCAAGACCTACCGCGAGAACGTGGGGGGCCCTGGCGCGCCGGAGGGGACGCCCG
CAGGCAGGGCACGGGGAGGCAGCCCGCGCCGCTGCCCGCCAAAGTGGACGAGGCCACCAGCGGGCTCATCCGCG
AGCTGGCGGGCGTGGAGGACGAGCTGTACCAGCGTATGCTGAAGGGCCCCCGCCAGAGCCCGCAGCCAGCGCCG
CCCAAGGCACCGGGGACCCCGACTGGGAGGCGCCCGGGCTGCCCCCTGCCAAGCGGCGCAAGTCCGAGTCGCCC
ACGTGGACCAGGCCAGCTTCTCCAGCGACAGCCCGCAGGATGACACGCTCACCAGACCTGCAGAGCGCCATCG
ACAGCATCCTGAACCTGCAGCAGGCCCCCGGCCGGACGCCCCGCGCCCTCGTACCCCCACGCTGCCTCGGCCGGCA
CCCCCGCATCCCCGCGCCCCCTGCACAGGCCCGAGGCCTACCCACCCCTCCAGTCACAACGGTGGCCTCGGCCGCA
GGACGTTGACCAGATAACACCGGGCCGCTCCCTTCCCCGTCCCCTCCTCCCGAAGACGCCGGGACAGTCGGGT
GTCCGCCCTCAGCCTCCTGGGGACTCGAGCCGGGGATCCCCTGACGGTTTTTCTTGCCCTAAGTTATTTGAGTCAC
AAAGGCCTCCTTCCCTGCGCGCTGCTTCAGCTGGGTGCTGGGGGGTGGGCGTGGATTAGGGAGGGGGCTGTGA
TGTAACAGTCTCCCTGCCAAAGGAGGGGCAAAGTGCTGTGTGCTCAGTTCCTGTTTCTTCCCATTTCTGGCACAC
TCTGCCCTCTGTCCGGGGGACACGCGCATGTGTTTGCCAGGGATGGGGCCACCGGGTTGATGCCAACGCTCCGG
GTGCTGTCTGTGTGTGTGGCTTCTCAGATGGTGGAGGGTGTGGGAGCTGGCAGGGTCTTCCAGACAGTCTC
AGCCTCTCCCCGCGCCCCCAACAGGCTGTCAAACAAAACCGGAGAGGGGGTGGGGGAGCCAGCCTCCCAGCGTG
CTGTGCCCGCAGGCACCCGTGTGACATCCGCACGTCCAGCTCCGTGACCTGTGTGTGTGTGTGTGTGCACAAGTG
AGTGAGAGATTTGAACGCCACCCCTCGACTTTGAAATCTGAGCAAAACAAGAACTGGGGTCTTCTCTCCCC
CGAACCTCTCCCCAGCTAGTCTTCCCTCTGTTCTTCTGCTCCAGCCGCCCGCGCCAGATTTTGAATCTCGGA
GACAAAACCTAGTACTGTAAGATAAATTTTTTTGACTGTATTTATGTGTATAACGATTTTTTTAAAGGAGAAT

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FIGURE 5485

GCGGCTGAGTCTTCCCAGGGTCAGGGTCAGGCGCTTTGCTGAGTCCCTTTGTGGCCGCCATGGACAATTCCGGGA
AGGAAGCGGAGGCGATGGCGCTGTTGGCCGAGGCGGAGCGCAAAGTGAAGAACTCGCAGTCCTTCTTCTCTGGCC
TCTTTGGAGGCTCATCCAAAATAGAGGAAGCATGCGAAATCTACGCCAGAGCAGCAAACATGTTCAAAAATGGCCA
AAAAGTGGAGTGCTGCTGGAAACGCGTTCTGCCAGGCTGCACAGCTGCACCTGCAGCTCCAGAGCAAGCACGACG
CAGCCACCTGCTTTGTGGACGCTGGCAACGCATTCAAGAAAGCCGACCCCAAGAGGGCCATTAAGTGTGATGC
GAGCAATCGAGATCTACACAGACATGGGCCGATTACGATTGCGGCCAAGCACCACATCTCCATTGCTGAGATCT
ATGAGACAGAGTTGGTGGACATCGAGAAGGCCATTGCCCCACTACGAGCAGTCTGCAGACTACTACAAAGGCGAGG
AGTCCAACAGCTCAGCCAACAAGTGTCTGCTGAAGGTGGCTGGTTACGCTGCGCTGCTGGAGCAGTATCAGAAGG
CCATTGACATCTACGAACAGGTGGGGACCAATGCCATGGACAGCCCCCTCCTCAAGTACAGCGCCAAAGACTACT
TCTTCAAGGCGGCCCTCTGCCACTTCTGCATCGACATGCTCAACGCCAAGCTGGCTGTCCAAAAGTATGAGGAGC
TGTTCCCAGCTTTCTCTGATTCCCGGGAATGCAAGTTGATGAAAAAATTGCTAGAGGCCCCACGAGGAGCAGAAATG
TGGACAGCTACACCGAGTCGGTGAAGGAATACGACTCCATCTCCCGGCTGGACCAGTGGCTCACCACCATGCTGC
TGCGCATCAAGAAGACCATCCAGGGCGATGAGGAGGACCTGCGCTAAGCCCCACCCAGCCCCCAGTGGCCGTCT
TCCTGTCCCATCTGCTCAGAGAGAGCCAAGCTCTAAAGCACATGTAGCCGCTGAGACCTGCTGTTTCTGCTGGGG
GCAGGCTCCTCTTCCCCAGCCCCGGGAGCCTCCCCAGCTTCTGCGAGCCCCGACCTCTCAGGTTAGACCCTGG
GCCCTGGAGCTTAGGGGATTCTCCCCACCCAGCCCCACACCTGCTCCTTCCCTAATGCTTTGAGGTTTTCTTGG
TTGGAAGCTGCAGCTGGCCCAAGAAAGAAAATAAAAAACAACACTTTTGC

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FIGURE 5486

TTGGCTTGAGCGGGACCGGAGCTGAGGCAGGAAGAGCCGGCGCCATGGTGGAGAAGGAGGAGGCTGGCGGCGGCA
TTAGCGAGGAGGAGGCGGCACAGTATGACCGGCAGATCCGCCTGTGGGGACTGGAGGCCAGAAACGGCTGCGGG
CCTCTCGGGTGCTTCTTGTCGGCTTGAAAGGACTTGGGGCTGAAATTGCCAAGAATCTCATCTTGGCAGGAGTGA
AAGGACTGACCATGCTGGATCACGAACAGGTAACCTCCAGAAGATCCCGGAGCTCAGTTCTTGATTCTGTAAGGTGG
CTGTTGGCCGAAATAGGGCTGAAGCCTCTTTGGAGCGAGCTCAGAATCTCAACCCCATGGTGGATGTGAAGGTGG
ACACTGAGGATATAGAGAAGAAACCAGAGTCATTTTTCACTCAATTTCGATGCTGTGTGTCTGACTTGCTGCTCCA
GGGATGTCTAGTTTAAAGTTGACCAGATCTGTCCAAAAATAGCATCAAGTTCTTTACAGGAGATGTTTTTGGCT
ACCATGGATACACATTTGCCAATCTAGGAGAGCATGAGTTTGTAGAGGAGAAAACTAAAGTTGCCAAAGTTAGCC
AAGGAGTAGAAGATGGGCCCCGACACCAAGAGAGCAAACTTGATTCTTCTGAGACAACGATGGTCAAAAAGAAGG
TGGTCTTCTGCCCTGTTAAAGAAGCCCTGGAGGTGGACTGGAGCAGTGAGAAAGCAAAGGCTGCTCTGAAGCGCA
CGACCTCCGACTACTTTCTCCTTCAAGTGCTCTTAAAGTTCCGTACAGATAAAGGAAGAGATCCCAGTTCTGATA
CATATGAGGAAGATTCTGAGTTGTTGCTCCAGATACGAAATGATGTGCTTGACTCACTGGGTATTAGTCTTGACC
TGCTTCTGAGGACTTTGTGAGGTACTGCTTCTCCGAGATGGCCCCAGTGTGTGCGGTGGTTGGAGGGATTTTGG
CACAGGAAATTGTGAAGGCCCTGTCTCAGCGGGACCTCCTCACAACAACCTTCTTCTTCTCGATGGCATGAAGG
GGAATGGGATTGTGGAGTGCTTGGCCCCAAGTGAACCTCAAGATTTGGCAGCCCCAGAGATGCCAACTGCAGCAT
GCCACCTGTATTCCCTGTCCCTTCTTTCATGAAGGCATCTCCAGGCAAGGAAAACTGAAGTCATTGGCCCGAT
ACAAAACATTTCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGCTGCTCGACAAGGGG
CGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTCAAGGCTGCCTGTATCCCGGGCCTGCCAGCTCCCTGAGTGAT
GAGCACTTCCAAGCACCCCTCTGCCCTTCTCTGTCTTATGCTGTCCCGGCCTCGCCAGCCCTCTGGGGCATTG
TGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTGTCTCGGGAGCCTCTTGTACCTTCTTGACTTATTCCCCA
CCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCCCAGGCCCATGAGGCACCAAGTGAAGCA
CAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGAAAACCATGACAGGCAAATGCATTTCTCTGGAGTTTGAGA
CCCTGACAAACAACAGGTGGCATCTGGTGTGCTGTTCTTGAGTTTTCGTTTAGGATTAGTTGAGTTCCAGCTGGG
TTTTGGGAGAAAGGAGATGCTACCAAGTCTTGATGTTAGGGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTG
TCTTTCAAGGCAGGTTCTTGGGGCTTCAGGGCTAGGAGGGAGGAGCCTGCCCTTTTAAACAGAACCCCAAGTCACAT
GCGGCTCAAGTCACTCAGAGGCTGTTGCATTTAGGGCTATGTTGGTCCTTTGTTTACCTCCTAAACCACAGCTG
TTTGTGTTTACATATGTTGTGAATTTCTTGGTTCTTTTTAAAGGAATGATAATAAAGTTACTTGCTTTAGGA
TTTGCTTGTTTTTCTTCCACTTCAGAAGCTTCTGAGAGGGAATGGGATGATCCTACCAGTTGCCTTTTCAGACCT
GAGGCTCTA

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FIGURE 5487

GTCATTGGCCCGATACAAAACATTTCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGC
TGCTCGACAAGGGGCGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTTCAGGCTGCCTGTATCCCGGGCCTGCCAG
CTCCCCGTGAGTGATGAGCACTTCCAAGCACCCCTCTGCCCTTTCTCTGTCCTTATGCTGTCCCGGCCTCGCCAGC
CCTCTGGGGCATTGTGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTTGTCACCTTCTT
GGACTTATTCCCCACCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCAGGCCCCATGAGG
CACCAGTGGAAGCACAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGCAGGTGGCATCTGGTGTGCTGTTCTTG
AGTTTTCGTTTAGGATTAGTTGAGTTCAGCTGGGTTTTGGGAGAAAGGAGATGCTACCAAGTCTTGGATGTTAG
GGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTGTCTTTCAAGGCAGGTTCTTGGGGCTTCAGGGCTAGGAGGG
AGGAGCCTGCCCTTTTAACAGAACCCAGTCACATGCGGCTCAAGTCACTCAGAGGCTGTTGC

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FIGURE 5488

TGCACCCTGAGCCGGAGCTGCCCAGTCGCCGCGGGACCGGGGCCGCTGGGGTCTGGACGGGGGTGCGCATGATCC
GCTTTATCCTCATCCAGAACCGGGCAGGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGAGA
AACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCACCGTCCGAGACGCCAAACACACCAACTTTGTGGAGTTCC
GGAACTTTAAAGATCATTACCGCCGCTATGCTGGCCTCTACTTCTGCATCTGTGTGGATGTCAATGACAACAACC
TGGCTTACCTGGAGGCCATTACAACTTCGTGGAGGTCTTAAACGAATATTTCCACAATGTCTGTGAACTGGACC
TGGTGTTCAACTTCTACAAGGTTTACACGGTTCGTGGACGAGATGTTCTGGCTGGCGAAATCCGAGAGACCAGCC
AGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTCCCTGGAGTGAGGGCAGGCGAGCCCCACCCCGGCCCGG
CCCCCTCCTGGACTCGCCTGCTCGCTTCCCCCTTCCCAGGCCCGTGGCCAACCCAGCAGTCCCTCCCTCAGCTGCCT
AGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAGGGAGGAGACTGCACCCCACTGCCTCTGGGCCCTGGCTGTG
GGCAGAGGCCACCGTGTGTGTCCCAGTAACCGTGCCGTTGTCTGTGTATGCCATAAGCGTCTGTGCGTGGAGTC
CCCAATAAACCTGTGGTCCTGCCTGGC

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FIGURE 5489

GGCAGCCCCGGGAGGCTTTCTCTGGCTGGTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGG
GCCCCGATCCCACCCTCCCGGACCTAAGAGCCTGGGTCCCCCTGTTTCCGGAGGTCCGCTTCCCGGCCCCCAGATT
CTGGCATCCCAGCCCTCAGTGTCCAAGACCCAGGCAGCCCGGGTCCCCCGCTCCCGGATCCAGGCCTCCGGGATC
TGCGCCACCAGAACCTAGCCTCCTGCAGACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCA
CGTCCCACCCAGAGAACTCTCGTATTCCCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACCTCCAGCTTT
CGGACATCTGGCACACGGGGCAGAGCAGAGAAGCCTCAGCGCCACGCTGGGGAAATTTAAACACTCCAGCTTCCA
AGAGCCAAGGAACCTCAGTGTGTGAACCTACAACCTTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTT
ACTCAACTCAGTCTAGGAACGTGGGTCTGGGAAGGAGCCCAAGCGCTCCAGCCAGCTTCCAGGCGCTAAGA
AACCCCGGTGCTTCCCATC**ATGGT**GGCCGATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGGGAGCCCCACCGC
CAACGGGGGCTGGCGCTGGCCTCCATCGAGGACCAAGGCGCGGCAGCAGGCGGCTACTGCGGTTCCCGGGACCA
GGTGCGCCGCTGCCTTCGAGCCAACCTGCTTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGG
ACTGGGGGTGTGGGGGGCCGGGGGTGCGCTGGCGTTGGGCCGGAGCGCTTGAGCGCCTTCGTCTTCCCGGGCGA
GCTGCTGCTGCGTCTGCTGCGGATGATCATCTTGCCGCTGGTGGTGTGCAGCTTGATCGGCGGGCGCCGCCAGCCT
GGACCCCGGCGCGCTCGGCCGCTTGGGCGCCTGGGCGCTGCTCTTTTCTGGTCAACACGCTGCTGGCGTGGC
GCTCGGAGTGGGCTTGGCGCTGGCTCTGCAGCCGGGCGCCGCTCCGCCGCCATCAACGCTCCGTGGGAGCCGC
GGGCAGTGCCGAAAATGCCCCAGCAAGGAGGTGCTCGATTCTGTTCTTGGATCTTGCGAGAAATATCTTCCCTTC
CAACCTGGTGTGACGAGCCTTTCGCTCATACTTACCACCTATGAAGAGAGGAATATCACCGGAACAGGGTGAA
GGTGGCCGTGGGGCAGGAGGTGGAGGGGATGAACATCCTGGGCTTGGTAGTGTGTTGCCATCGTCTTTGGTGTGGC
GCTGCGGAAGCTGGGGCCTGAAGGGGAGCTGCTTATCCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTTCT
GGTCTCCTGGATCATGTGGTACGCCCTGTGGGCATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGA
TGTGGGTTTACTCTTTGCCCGCCTTGGCAAGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCT
GGTACTGCCCTCATCTACTTCTCTTACC CGCAAAAACCCCTACCGCTTCTGTGGGGCATCGTGACGCCGCT
GGCCACTGCCTTTGGGACCTCTTCCAGTTCGCCACGCTGCCGCTGATGATGAAGTGCGTGGAGGAGAATAATGG
CGTGGCCAAGCACATCAGCGTTTCATCCTGCCATCGGCGCCACCGTCAACATGGACGGTGCCGCGCTCTTCCA
GTGCGTGGCCGCAAGTGTTCATTGCACAGCTCAGCCAGCAGTCCCTGGACTTCGTAAAGATCATCACCATCCTGGT
CACGGCCACAGCGTCCAGCGTGGGGGCAGCGGGCATCCCTGCTGGAGGTGTCCTCACTCTGGCCATCATCCTCGA
AGCAGTCAACCTCCCGGTGACCATATCTCCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTGTACCGT
CCTCAATGTAGAAGGTGACGCTCTGGGGGCAGGACTCCTCCAAAATTACGTGGACCGTACGGAGTCGAGAAGCAC
AGAGCCTGAGTTGATACAAGTGAAGAGTGAGCTGCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCC
CCTCCTCAAACACTATCGGGGGCCCGCAGGGGATGCCACGGTCGCCTCTGAGAAGGAATCAGTCATG**TAA**ACCC
GGGAGGGACCTTCCCTGCCCTGCTGGGGGTGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCT
AGGGCTCTGGGGGTCTGCCTGCACACTCTGGGGAGCCAGGGGGCCCCAGCACCCCTCCAGGACAGGAGATCTGGGAT
GCCTGGCTGCTGGAGTACATGTGTTACAAAGGGTACTCCTCAAAACCCCCAGTTCTCACTCATGTCCCCAACTC
AAGGCTAGAAAACAGCAAGATGGAGAAATAATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCTGTC
TCAGGGAGCAGGTACAGGTACCATGGGGAATTCTAGCCCCCACTGGGGGGATGTTACAACACCATGCTGGTTA
TTTTGGCGGCTGTAGTTGTGGGGGGATGTGTGTGTGCACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTTCTGTGACCTCCTGTCCCATGGTACGTCCACCCCTGTCCCCAGATCCCTATTCCCTCCACAATAACAGAAA
CACTCCCAGGGACTCTGGGGAGAGGCTGAGGACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTTAGCAATA
AAATTGAGTGTCAACTATTT

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FIGURE 5490

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGLGVSGA
GGALALGPERLSAFVFPGELELLRLLRMIILPLVVC SLIGGAASLDPGALGRLGAWALLFFLVTTLLASALGVGLA
LALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVQGQ
VEGMNIGLVVFAIVFGVALRKLGPGELELLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA
RLGKYILCCLLGHAHGLLVPLIYFLFTRKNPYRFLWGIVTPLATAFGTSSSSATLPLMMKCVEENNGVAKHIS
RFILPIGATVNMDGAALFQCVAAVFIAQLSQSLDFVKIITILVTATASSVGAAGIPAGGVLTIAIILEAVNLPV
DHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRTESRSTEP ELIQVKSELPDPLFPVPTTEGNPLLKHRY
GPAGDATVASEKESVM

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[illegible]

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FIGURE 5492

ATGATGGAGGAGCGAGCGGCCGCCGCGGTGCGCCGCCGCCGCTCCTCCTGCCGTCCGCTCGGCTCAGGCGCGGGC
CCTGGCCCCACTGGGGCGGCCCGGTCTCCGCCCTGCCCGGGGCCGGGCCGGCAGGTAAGGGAGGCGGGCGG
GGAGGCGAGCCCCGGGCCACGGCGGGCCCGGAGCCCCCTGAGCCTGCCGGGGATCCTGCACCTTTATCCAGCACGAG
TGGGCGCGCTTCGAAGCCGAGAAAGCCCGCTGGGAGGCCGAGCGCGCCGAGTTACAGGCTCAGGTGGCCCTTCCTT
CAGGGAGAGAGGAAAGGGCAGGAGAATCTAAAGACGGACCTGGTGCGGCGGATCAAGATGCTAGAGTATGCGCTG
AAGCAGGAAAGGGCCAAATATCATAACTGAAGTTTGGGACAGACCTGAACAGGGGGAGAAGAAAGCAGATGTG
TCAGAACAAGTCTCCAATGGCCCCGTGGAATCGGTACCCCTGGAGAACAGCCCGTTGGTGTGGAAGGAGGGGCGG
CAGCTTCTCCGACAGTACCTGGAAGAGGTGGGCTACACAGACACCATCCTCGACATGCGGTCCAAGCGCGTCCGT
TCCCTGCTGGGCCGCTCGCTGGAGCTCAACGGGGCAGTGGAGCCGAGTGAAGGGGCCCCAGGGCTCCACCAGGC
CCTGCAGGGCTCAGTGGTGGGAGTCTGCTGCTGGTGAACAGATCGAGGAGCAGATAAAGAGGAAACGCGGCAGGC
AAAGATGGCAAAGAGCGCTTGGGCGGCTCAGTCTGGGGCAGATCCCCCTTCCTGCAGAACTGCGAGGACGAAGAC
AGCGACGAGGACGATGAGCTGGACAGCGTGCAGCACAAGAAGCAGCGTGTGAAGCTCCCATCCAAGGCTCTGGTG
CCCGAAATGGAAGACGAGGATGAGGAAGACGACTCTGAGGATGCTATCAATGAGTTTGATTTCCTGGGCTCAGGA
GAGGATGGGGAAGGGGCTCCAGACCCTCGGCGGTGCACTGTGGATGGGAGCCCCCATGAGCTGGAAAGCCGTCGG
GTCAAACCTCAAGGCGTTCTGGCTGACCTGCGGGATGTGGATGGGCTGCCCCAAAAGTGAAGTGGCCCGCTCCT
GGCACACCCAGCCCCGGCCACATGAAGACGTCTTCATCATGGACACTATCGGGGGCGGGGAGGTGAGCCTGGGG
GACTTGGCAGATCTCACCGTCACCAACGACAACGACCTCAGCTGCGATCTGTCTGACAGCAAAGATGCTTTTAAG
AAGACGTGGAACCCCAAGTTCACCTGCGCTCGCACTACGACGGCATTTCGTTCCCTGGCCTTCACCACAGCCAG
TCGGCTCTGCTCACCGCTCCGAGGACGGCACGCTCAAGCTCTGGAACCTGCAGAAGGCGGTACAGGCCAAGAAG
AATGGCGCGCTAGATGTGGAACCTATACATGCTTTCCGGGCTCACAGGGGCCAGTGTGGCTGTGGCTATGGGC
AGCAACAGTGAATACTGCTACAGTGGCGGGGAGATGCTGTCATCCATAGTTGGAAGATTCCAGACCTCAGCATG
GATCCCTATGATGGCTACGACCCAAGCGTGTGAGCCACGTCTGAGGGGCCACGGGGACGCCGTGTGGGGCCTG
GCCTTCAGTCCCACCTCCCAGCGCTGGCCTCCTGTTCTGCTGATGGCACCGTCCGCATCTGGGACCCAGCAGC
AGCAGCCCGGCTGCTCTGACCTTCCCCACAGCCAGCAGCAGCAGCGGGTCCCCACCTCAGTGGCCTTCACCAGC
ACCGAGCTGCCACATCGTGGCCTCCTTCCGCTCTGGCGACACCGTCTTGATGACATGGAGGTTGGCAGTGCC
CTCCTACGCTGGAGTCCCGGGGACGAGCGGTCCAACCCAGATCAACCAAGTGGTGAGTCATCAAACAGCCT
CTCACCATCACCGCCACGACAGAGGGGATCCGCTTCCCTGGACAAATCGGACAGGTAAGCCGGTGCATCCATG
GTTGCACACCTGGACGCACTACCTGCCTAGCCGTGGACCCCAACGGCGCATTCCTGATGTCAGGAAGCCATGAC
TGCTCCCTGCGTCTCTGGAGCCTGGACAACAAAACGTGCGTGCAAGGATACAGGCCCCACCGCAAGAAGCACGAG
GAGGCCATCCACGCTGTTGCCTGCCACCCAGCAAGGCCCTCATTGCCAGTGTGCGCTGATGCCCTGGCCAAAG
GTCTTCGTATGATGCCACCTGGCCCTGCCCTGGCCGCCACGCTGGCTGGGGTGTAGGGCCGGGAGGTGGGGCT
GAGGGGACTCCCAGCCTCGCTGGAGGTGCAGAGGCTGGCCTCTGTCTGTTGCCATGGAGCCTGGTGGTGCTAA
CGGCCCTTTCCCCAGGAATCCCTCCCCAACGGCTGCCTTCCCCAAGCATCCAGCCTGGGGATGGGCCCCCTTCAG
GAATACCCCCGAGGATGGCCTCGGGGTTTCCCCCTGTGCCCTGACAGCCGCTCCTGGTATCAGAGCTGCTTTCC
AGAGGGCAGCACAGCCAGGGCCGGGTGTCTTTAGGGATCAGTTTTTCCAAGACTCCAGAAGGTGCCAGGTTCTCC
CCTTGAGCTCCTGCTCCCCATCCCCATCCTCCAGACCTGGGCAGGAGCTGTGCTGGGAGAAAGGGTGGCAGC
CGGGAGCCTCAGAGCTGAGCCCCGGCCTGGCTGCCCTCCCCCTCCCGCCCTCTCCACTGCTTTCCAGACACTAAC
CAAGGCTTCCAGGCCAGGGATTGCCCAACACTCCTAGGGCAGCCCTCCCAGCGCCCCATGGGGTCGCCATGGGT
AGAGACGGCTTTCTTGTCCTTCCCTGGGGCATGGAGGGTGGAGTGGGCTCGGGTCCCCCTGAACTCCCTGTA
TATCTGTATAAATAACGGGATTTTCATGGCGCGCCCCACCCGCATTATCACTGTGTGATGGTCTCAGTCAGTCT
CCTCCCTGTCTCCACTCTTTCCCTCTATTTATTTCACTCTCTTGTGTTGGTTCTACCCTGCACCCTCGGTCCCTT
CCAGGTTCTGTTTATAAGCCCCAACCCCTCTGTCCCCATCTGTATGTGAAAACCTGTCTCAATAAACCTTTG
GAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5493

MMEERAAA AVAAA ASSCRPLGSGAGPGPTGAAPVSAPAPGPGPAGKGGGGGSGPGPTAGPEPLSLPGILHFIQHE
WARFEAEKARWEAERAELQAQVAFLOGERKQENLKTDLVRRIKMLEYALKQERAKYHKLKFGTDLNQGEKKADV
SEQVSNGPVESVTLENSPLVWKEGRQLLRQYLEEVGYTDTILDMRSKRVRSLGRSLELNGAVEPSEGAPRAPPG
PAGLSGGESLLVKQIEEQIKRNAAGKDGERLGGSVLGQIPFLQNCEDSDSDDELDVQHKQORVKLP SKALV
PEMEDEDEDDSEDAINEFDLFGSGEDGE GAPDPRRCTVDGSPHELESRRVKLQGV LADLRDVG LPPKVTGPPP
GTPQPRPHEDVFIMDTIGGGEVSLGDLADLTVTNDNDLSCDLSDSKDAFKKTWNP KFTLRSHYDGIRSLAFHHSQ
SALLTASEDGTLLKLWNLQKAVTAKKNAALDVEPIHAFRAHRGPVLAVAMGSNSEYCYSGGADACIHSWKIPDL SM
DPYDGYDP SVLSHVLEGHGDAVWGLAFSPTSQRLASCSADGTVRIWDPSSSSPACLTFFPTASEHGVPTSVAF TS
TEPAHIVASFRSGDTVLYDMEVGSALLTLESRGSSGPTQINQVVSHPNQPLTITAHDDR GIRFLDNRTGKPVHSM
VAHLDAVTC LAVDPNGAFLMSGSHDCSLRLWSLDNKTCVQEITAHRRKKHEEAIHAVACHP SKALIASAGADALAK
VFV

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FIGURE 5494

AGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTCGCGTCTCGGAAACCGGTAGCGCTTGCAGCATGGCTG
ACCAACTGACTGAAGAGCAGATTGCAGAATTCAAAGAAGCTTTTTCACTATTTGACAAAGATGGTGATGGAACTA
TAACAACAAAGGAATTGGGAACTGTAATGAGATCTCTTGGGCAGAATCCACAGAAGCAGAGTTACAGGACATGA
TTAATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCCTGAATTTCTGACAATGATGGCAAGAAAAATGA
AAGACACAGACAGTGAAGAAGAAATTAGAGAAGCATTCCGTGTGTTTGATAAGGATGGCAATGGCTATATTAGTG
CTGCAGAACTTCGCCATGTGATGACAAACCTTGGAGAGAAGTTAACAGATGAAGAAGTTGATGAAATGATCAGGG
AAGCAGATATTGATGGTGATGGTCAAGTAACTATGAAGAGTTTGTACAAATGATGACAGCAAAGTGAAGACCTT
GTACAGAATGTGTTAAATTTCTTGTACAAAATTGTTTATTTGCCTTTTCTTTGTTTGTAACCTATCTGTAAAAGG
TTTCTCCCTACTGTCAAAAAATATGCATGTATAGTAATTAGGACTTCATTCCTCCATGTTTTCTTCCCTTATCT
TACTGTCAATTGTCTAAACCTTATTTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATA
TCTAAGCCCTTCTGCACATCTAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTTATGCCTTTTTTAA
AGTAGTTTTCTTTAGGAAGTGTGAGCATGTTGTTGTTGAAGTGTGGAGTTGTAACCTCTGCGTGGACTATGGACAG
TCAACAATATGTACTTAAAGTTGCACTATTGCAAAACGGGTGTATTATCCAGGTACTCGTACACTATTTTTTTG
TACTGCTGGTCCTGTACCAGAAACATTTCTTTTATTGTTACTTGCTTTTTAACTTTGTTTAGCCACTTAAAT
CTGCTTATGGCACAATTTGCCTCAAAATCCATTCCAAGTTGTATATTTGTTTTCCAATAAAAAAATTACAATTTA
CCC

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FIGURE 5495

MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMAR
KMKDTSSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK

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FIGURE 5496

GAGCCTACCAAACCTTTGGTTTCGCAGGGCTGGAGCTAAGTCTCGCTCCAGGAGAAAGAAGCAGAAGAAGAACTCC
AGGCAGGAAGCAGTGCCCTGGAAAAACCCAAAGGCATCAATTCCAACAGCACAGCTAACTTGGAGGATCCTGAG
GTGGGTGATGCTGAAAGCATGGCGATCTCAGAGCCGATCAAGGGCAGCAGAAAGCCCTGTGTGAATAAGGAGGAG
TTGGCTTTGAAGAAGCCCATGGCGAAATGTGCCTGGAAGGGTCCCAGAGAGCCACCTCAGGATGCCCGGCAGAA
GCCGAGAGCCCAGGAGGCGCCTCTGAGTCAGACCAAGATGGTGGCCATGAAAGCCCACCAAAGAAGAAGCCGTG
GCCTGGGTGTCTGCCAAGAACCCCGCTCCCATGAGGAAGAAGAAGAAGGTGAGCTTGGGCCCTGTCTCCTACGTC
TTGGTTGACTCAGAAGATGGCAGGAAGAAGCCGGTGATGCCAAAGAAAGGGCCAGGCTCAAGAAGGGAGGCATCA
GATCAGAAGGCCCTTCGGGGCCAGCAGCCTGCCGAGGCAACAGCCTCAACCTCTAGGGGTCCGAAGGCCAAGCCA
GAAGGCTCTCCTCGGCGTGCCACCAATGAATCCAGAAAGGTTTGATCTGGGGGACCACCCATACTGAGGAGTTGA
AAGAACAAGGAAGAAGTACCAAGTCAACCAAGTTCTCTTGTCACTGAATAAGACTTTGGACTCTCTTAGGGCC
CCTGTTGATAGAGATCTGGCCCTGAGGTAAACGATAGGTGAGGTCTTGGGTGGGAGGGAGTTGGGGAAGGGAGGT
GGATCTCTATGCCCTTTTCTCTACCAGGCCTGCCGTTTCACCGCCTTCTCTACTCACCTTCTCTTCGGAGGCAGG
AGAGTTGGTAAGAGGATTGGGAAAATTCTAGAACATTTCATCCCTTTATGCAATGAGCAGGGTCACTGTTACACT
CATCCATGTTTCAGCTTTTCTCCCCACGCCTTGCTCCCTCCTCGGAATGGTCAGCGACCTCTGCAGGCCCTGGCA
TTTGGAAGAGCTGGGTGGCCCTGCCATATTCTTCTCCCGCCTTCTCTCGTGTAAACCAGCGGGGTAAAGTTAAGC
CAGGACCTTCGCTGCAAACCTGGTTTTATTGCTCCTTCAGTCTCCAGCTTCCATCCTCCAGTTATCTAGCCAGGA
GGTCCCAAGAGTTAGTTTTAGGGAAAAAGAAATGCTGCCTAGACCTCAAAGTCTTTGAGTTTTAGAGTCTGTTAG
TAAAAATGGCACTTTGATTCCCATTTGGGATGAGCCCTCTCAGGAATCCTGTGGGGAAAGGGGGGTGATTATAGGG
AAGGACGCAGGCATTCTAGGTCCCAGCTCTAATTCCATCCATCTACCCAACTGTCAACCATCTTTGCACCAAAC
TGTCAACCATCTTTGCAGCAGAAGGTCACCTACTCACATTATAGTAAGAGGGGAAAAAAATCTTTTAAACTTTGGCT
GTTGGCCGGGCACGGTGGCTCAGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGTGATCAGGAGGTCAG
GCGTTTTAAGACCAGCTTGACCAACATGGTGAAACCCCATCTCTACAAAAATTAGCTGGGCGTGGTGGCGCGCGCC
TGTAATCCCAGCTACTCAGGAGGCTGAGGCAGATGAATTGCTTGAATCCAGGAGGCAGAGGTTGCAATGAGCCGA
GATTGTGCCACGGCACTCCAGCCTGGGCAGCAGAGTGAGACTCTCTCTCAAAAAAACAAACTTTGGCTGTTAATG
TCTGCCCTCTGAATTCAGACACACTATATTAGACCAGACCACCATGTGTCAATTGTGTGTGTGTGTGTGTGTTT
GCGTGCGCATGTGTAGAGGAGAGCAGGGTCCCTGAGATAATGGTTTCCAACTGTATCGTAGCCGTCCACAAA
GATGTAATCCAAATCTATTTTCTCACGTGTTTAAAAAACTGAAAAGTGACTACTCAGATATGTTGGAAGTCACA
TCGAAGACTATCAGAATATTACCTTGTGTTTCATAGGTTAACTTGTTTTGTACACGTCTTAGTTATTTTCAGGCAT
CTCTTTGCTTAAATTTAGTTTTCTTGTAAATGTGACTGATGAGCGAGGTTAGAAGTGAAGAAATTCCTGTGCAT
GTTCTATAATCTGACACCCTGAAAGCAAGTTTCCTTTTCGTCAATTCACATGCTCTTGTTCTGCCGTGACTGTTTCAG
GTGTATGGTAGTAAGTAAATGTATTAACATGGTGAACAGTAGTAATATTCTATCATAGAGTATTAGCCCTTGCAA
GTTTTTCAGGGCGTCTTTTCCGACTTCAGTTTTTGTGATAAAGAATGTGAACAGTTGTTAGATGTTCTCAGTGATT
CAACTTTAAACAAATTTCTCGTGATGATTTCATTTCAAATCCTGAGTGAGTCTGACTGAAAAATACGAGAGAAA
AGAGAGTGGTTTCCGTTTGCAGCTACACAGCTGTGTGCATCGACGTTCTCCTGGGGTGTGTGCCAAGCGAAACCC
AGGGGTGAATTGGATTCTTGAAGAGACCAAAGCCTGTAACGTGTCAGCTTCTAATTTCAAACGGGTCCATTAGG
GCTTCGTTGTGTTAAACAAGTTGACACCATGACTAGTAAATGTAAACGTGTATGTATAAAATAAAGTTTAGCAAAT
TAAGTGTCCTGTT

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FIGURE 5497

CGCGACGGTTCGGCCGGGTGCCGCTGGCGGCCGTTGCCAGGGTAGGGGTCGCTTTGCGGCCATGGCGATGGCGGAG
GGCGAGAGGACTGAGTGTGCTGAGCCCCCGGGACGAACCCCGGCTGATGGAGCTCTGAAGCGGGCAGAGGAG
CTCAAGACTCAGGCCAATGACTACTTCAAAGCCAAGGACTACGAGAACGCCATCAAGTTCTACAGCCAGGCCATC
GAGCTGAACCCAGCAATGCCATCTACTATGGCAACCGCAGCCTGGCCTACCTGCGCACTGAGTGCTATGGCTAC
GCGCTGGGAGACGCCACGCGGGCCATTGAGCTGGACAAGAAGTACATCAAGGGTTATTACCGCCGGGCTGCCAGC
AACATGGCACTGGGCAAGTTCGCGGCCGCGCTGCGAGACTACGAGACGGTGGTCAAGGTGAAGCCCCATGACAAG
GATGCCAAAATGAAATACCAGGAGTGCAACAAGATCGTGAAGCAGAAGGCCCTTTGAGCGGGCCATCGCGGGCGAC
GAGCACAAGCGCTCCGTGGTGGACTCGCTGGACATCGAGAGCATGACCATTGAGGATGAGTACAGCGGACCCAAG
CTTGAAGACGGCAAAGTGACAATCAGTTTCATGAAGGAGCTCATGCACTGGTACAAGGACCAGAAGAACTGCAC
CGGAAATGTGCCTACCAGATTCTGGTACAGGTCAAAGAGGTCTCTCCAAGCTGAGCACGCTCGTGGAAACCACA
CTCAAAGAGACAGAGAAGATTACAGTATGTGGGGACACCCATGGCCAGTTCTATGACCTCTCTCAACATATTCGAG
CTCAACGGTTTACCTTCGGAGACCAACCCCTATATATTTAATGGTGACTTTGTGGACCGAGGCTCCTTCTCTGTA
GAAGTGATCCTCACCCTTTTCGGCTTCAAGCTCCTGTACCCAGATCACTTTACCTCCTTCGAGGCAACCACGAG
ACAGACAACATGAACCAGATCTACGGTTTCGAGGGTGAGGTGAAGGCCAAGTACACAGCCCAGATGTACGAGCTC
TTTAGCGAGGTGTTTCGAGTGGCTCCCGTTGGCCAGTGTCATCAACGGCAAAGTGCTGATCATGCACGGAGGCCTG
TTCAGTGAAGACGGTGTACCCCTGGATGACATCCGGAATAATGAGCGGAATCGACAACCCCCAGATTCAGGGCCC
ATGTGTGACCTGCTCTGGTCAGATCCACAGCCACAGAACGGGCGCTCGATCAGCAAGCGGGGCGTGAGCTGTGAG
TTTGGGCTGACGTACCAAGGCCTTCTTGGAAGAGAACAACCTGGACTATATCATCCGAGCCACGAAGTCAAG
GCCGAGGGCTACGAGGTGGCTCACGGAGGCCGCTGTGTACCGTCTTCTCTGCCCCAACTACTGCGACCAGATG
GGGAACAAAGCCTCCTACATCCACCTCCAGGGCTCTGACCTACGGCCTCAGTTCACACAGTTCACAGCAGTGCCT
CATCCCAACGTCAAGCCCATGGCCTATGCCAACACGCTGCTGCAGCTAGGAATGATGTGAGGTGACGGGCGGGGC
GGCCTGCATCCCAGGGCCCTCCAATCCACCGACCCAGGCCCTGGGCTAGGGGCAGAGCAGGCCCCGCCCCAG
GGCAATGTTGGACCCCCCTTTACTTTGTAAAGTTTGATTTATTTCCCTTTAGGTTTGAGAGGGGGTAGGGGCA
GAGTCAGGGGCTGGCCAGAGGGTCTGCTCCCTGGACAGAGAGGAAGGAGGTGGAGCAGCTGGGGCTGGGGGCACA
GCCTGGGCATTCTGTGGGGAGGCCGCTCCTCGGGGTGGGGTGGGGCCGAGTGGCTGCCCTGCCCCCTCATTTGCA
TGGCTCCTCCCCACTCAAGCAATAGGGCCCCGCCATAGGAAGACCCCCAGAGAGAGGGTCAGCAGGGGGGCCCC
GCCTGCGCCTCCCTCCTATAGCCCCATGGTGGGGCTAGGCTGGGGCTCACCCCCCTCCCCAGCTATTTTATGTC
TGTAATTAAATATGTTAAATAAAGTCATTATCGGAAAAAAAAAAAAAAAA

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FIGURE 5498

MAMAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPSNAIYYGNRSLAYLRT
ECYGYALGDATRAIELDKKYIKGYRRAASNALGKFRAALRDYETVVVKVPHDKDAKMKYQECNKIVKQKA
AIAGDEHKRSVVDSLDIESMTIEDEYSGPKLEDGKVTISFMKELMQWYKDQKKLHRKCAYQILVQVKEVLSKLST
LVETTLKETEKITVCGDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDRGSFSVEVILTTFGFKLLYPDHFHLL
RGNHETDNMNQIYGFEDEVKAKYTAQMYELFSEVFEWLPLAQCINGKVLIMHGGLFSEDGVTLDDIRKIERNRQP
PDSGPMCDLLWSDPQPQNGRSISKRGVSCQFGPDVTKAFLEENNLDYIIRSHEVKAEGYEVAGGRCVTVFSAPN
YCDQMGNKASYIHLQGSDLRPQFHQFTAVPHPNVKPMAYANTLLQLGMM

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FIGURE 5499

CCCCTTCCTGTGGGGTTTCATTGGGGCATCCCCTTTCTGCTGCAGGAACCTCTCATCAGACCGCTGAGGGAAGCG
GCGCCCGGAGACCCGCCCGGGCCGGTCCACATTCTCCCCAGGAAGCCGGACTCTATGGGGCGGGACCTTGGGGG
AGCCTGAGCCGAGCCCGGAGCCAGCCCCGAACCCCTGAACCTCCAGCCAGGGGCGCCCCGGGAGCAGCCAGCCCC
TGGGCGAGCCGCCCGGCCGAGCAGCCATGAGCGAGACGGTCATCTGTTCCAGCCGGGCCACTGTGATGCTTT
ATGATGATGGCAACAAGCGATGGCTCCCTGCTGGCACGGGTCCCCAGGCCTTCAGCCGCGTCCAGATCTACCACA
ACCCACGGCCAATTTCCTTTTCGCGTCGTGGGCCGGAAGATGCAGCCCGACCAGCAGGTGGTCATCAACTGTGCCA
TCGTCCGGGGTGTCAAGTATAACCAGGCCACCCCCAACCTTCATCAGTGGCGCGACGCTCGCCAGGTCTGGGGCC
TCAACTTCGGCAGCAAGGAGGATGCGGCCAGTTTGCCGCCGGCATGGCCAGTGCCTTAGAGGCGTTGGAAGGAG
GTGGGCCCCCTCCACCCCCAGCACTTCCCACCTGGTCGGTCCCGAACGGCCCCCTCCCCGGAGGAGGTGGAGCAGC
AGAAAAGGCAGCAGCCCGGCCCGTTCGGAGCACATAGAGCGCCGGGTCTCCAATGCAGGAGGCCACCTGCTCCCC
CCGCTGGGGGTCCACCCCCACCACCAGGACCTCCCCCTCCTCCAGGTCCCCCCCCACCCCCAGGTTTGCCCCCTT
CGGGGGTCCCAGCTGCAGCGCACGGAGCAGGGGGAGGACCACCCCTGCACCCCTCTCCCGCAGCACAGGGCC
CTGGTGGTGGGGGAGCTGGGGCCCCAGGCCTGGCCGCAGCTATTGCTGGAGCCAACTCAGGAAAGTCAGCAAGC
AGGAGGAGGCCTCAGGGGGGCCACAGCCCCCAAAGCTGAGAGTGGTCGAAGCGGAGGTGGGGGACTCATGGAAG
AGATGAACGCCATGCTGGCCCGGAGAAGGAAGCCACGCAAGTTGGGGAGAAAACCCCCAAGGATGAATCTGCCA
ATCAGGAGGAGCCAGAGGCCAGAGTCCCGGCCAGAGTGAATCTGTGCGGAGACCCTGGGAGAAGAACAGCACAA
CCTTGCCAAGGATGAAGTCGTCTTCTTCGGTGACCACTTCGAGACCCAACCTGCACGCCAGCTCCAGTGATT
ACTCGGACCTACAGAGGGTGAAACAGGAGCTTCTGGAAGAGGTGAAGAAGGAATTGCAGAAAGTGAAAGAGGAAA
TCATTGAAGCCTTCGTCCAGGAGCTGAGGAAGCGGGTTCTCCCTGACCACAGGGACCCAGAAAGACCCGCTTCTC
CTTTCCGCACACCCGGCCTGTACCCCTGCTTTCCCTGCCCTCTACTTGACTTGGAATTGGCTGAAGACACAGGAAT
GCATCGTTCCCACTCCCCATCCCACTTGGAAACTCCAAGGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCT
GCTGATTGGCTGGGGAGGCCCCCGCCCTTTCTCCCTTTGGTCCTTCCCTCTGCCATCCCCCTTGGGGCCGGTCC
CTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGGGAAGGAAGGAGGGAATTCACATTCCCTTGTCTAG
ATTCACTTTAACGCTTAATGCCTTCAAAGTTTTGGTTTTTTAAGAAAAAAAAATATATATATATTTGGGTTTTG
GGGAAAAGGGAAATTTTTTTTTCTTTTGGTTTTTGATAAAATGGGATGTGGGAGTTTTTAAATGCTATAGCCCT
GGGCTTGCCCCATTTGGGGCAGCTATTTAAGGGGAGGGGATGTCTCACCGGGCTGGGGGTGAGATATCCCCCAC
CCAGGGACTCCCCTTCCCTCTGGCTCCTTCCCTTTTCTATGAGGAAATAAGATGCTGTAACTTTTTGGAACCT
CAGTTTTTTGATTTTTTATTTGGGTAGTTTTGGGGTCCAGGCCATTTTTTTTACCCCTTGGAGGAAATAAGATG
AGGGAGAAAGGAGAAGGGGAGGAAACTTCTCCCTCCACCTTCACCTTTAGCTTCTTGAAATGGGGCCCTGCA
GAATAAATCTGCCAGTTTTTTATAAAAAAAAAA

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FIGURE 5500

MSETVICSSRATVMLYDDGNKRWLPAGTGPQAFSRVQIYHNPTANSFRVVGRKMQPDQQVVINCAIVRGVKYNQA
TPNFHQWRDARQVWGLNFGSKEDAAQFAAGMASALEALEGGGPPPPPALPTWSVENGFSPREEVEQQKRQQPGPSE
HIERRVSNAGGPPAPPAGGPPPPPGPPPPPGPPPPGLPPSGVPAAAHGAGGGPFAPPLFAAQGGGGGAGAPG
LAAAIAGAKLRKVSQEEASGGPTAPKAESGRSGGGGLMEEMNAMLARRRKATQVGEKTPKDESANQEEPEARVP
AQSESVRRPWEKNSTTLPRMKSSSVTTSETQPCTPSSSDYSDLQVRVKQELLEEVKKELQKVKEEIEAFVQELR
KRGSP

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FIGURE 5501

ACAGTAGTAAGAGTAACACTGTAGCCGCCACCGGCAAGGGGTGCGCGCTGGGGAGCGGACGCTGCATCCCCCTTTC
TGCTGCAGGAACCTCTCATCAGACCGCCTGAGGGAAGCGGCGCCCGGAGACCCGCCCCGGCCCGGTCCACATTCT
CCCTGACCACAGGGACCCAGAAGACCCGCTTCTCCTTTCCGCACACCCGGCCTGTCACCCTGCTTTCCCTGCCTC
TACTTGACTTGGAATTGGCTGAAGACTACACAGGAATGCATCGTTCCCACTCCCCATCCCCTTGAAAACTCCA
AGGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCTGCTGATTGGCTGGGGAGGCCCCGCCCTTTTCTCCCTT
TGGTCCTTCCCTCTGCCATCCCTTGGGGCCGGTCCCTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGG
GGAAGGAAGGAGGAATTTACATTCCCTTGTTCAGATTCACTTTAACGCTTAATGCCTTCAAAGTTTTGGTTT
TTTTAAGAAAAAAAATATATATATATTTGGGTTTTGGGGAAAAGGAAATTTTTTTTCTCTTTGGTTTTGAT
AAAATGGGATGTGGGAGTTT

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FIGURE 5502

AAGTGCTGCGAGCCCTGGGCCACGCTGGCCGTGCTGGCAGTGGGCCGCCCTCGATCCCTCTGCAGTCTTTCCCTTG
AGGCTCCAAGACCAGCAGGTGAGGCCTCGCGGCGCTGAAACCGTGAGGCCCGGACCACAGGCTCCAGATGGACCC
TGGGAAGGACAAAGAGGGGGTGCCCCAGCCCTCAGGGCCGCCAGCAAGGAAGAAATTTGTGATACCCCTCGACGA
GGATGAGGTCCCTCCTGGAGTGGCCAAGCCCTTATTCCGATCTACACAGAGCCTTCCCACTGTGGACACCTCGGC
CCAGGCGGGCCCTCAGACCTACGCCGAATATGCCATCTCACAGCCTCTGGAAGGGGCTGGGGCCACGTGCCCCAC
AGGGTCAGAGCCCTGGCAGGAGAGACGCCCAACCAGGCCCTGAAACCCGGGGCAAAATCCAACAGCATCATTGT
GAGCCCTCGGCAGAGGGGCAATCCCGTACTGAAGTTCGTGCGCAACGTGCCCTGGGAATTTGGCGACGTAATTCC
CGACTATGTGCTGGGCCAGAGCACCTGTGCCCTGTTCTCAGCCTCCGCTACCACAACCTGCACCCAGACTACAT
CCATGGGCGGCTGCAGAGCCTGGGGAAGAACTTCGCCCTTGCGGGTCCCTGCTTGTCCAGGTGGATGTGAAAGATCC
CCAGCAGGCCCTCAAGGAGCTGGCTAAGATGTGTATCCTGGCCGACTGCACATTGATCCTCGCCTGGAGCCCCGA
GGAAGCTGGGCGGTACCTGGAGACCTACAAGGCCTATGAGCAGAAACCAGCGGACCTCCTGATGGAGAAGCTAGA
GCAGGACTTCGTCTCCCGGTGACTGAATGTCTGACCACCGTGAAGTCAGTCAACAAAACGGACAGTCAGACCCT
CCTGACCACATTTGGATCTCTGGAACAGCTCATCGCCGCATCAAGAGAAGATCTGGCCTTATGCCCAGGCCTGGG
CCCTCAGAAAGCCCGGAGGCTGTTTGATGTCTGCACGAGCCCTTCTTGAAAGTACCCTGATGACCCAGCTGCC
AAGGAAACCCCAAGTGTAAATAATAATCGTCCTCCAGGCCAGGCTC

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FIGURE 5503

MDPGKDKEGVFPQPSGPPARKKFVIPLDEDEVPPGVAKPLFRSTQSLPTVDTSAQAAPQTYAEYAI SQPLEGAGAT
CPTGSEPLAGETPNQALKPGAKSNSIIVSPRQRGNPVLKFVRNVPWEFGDVIPDYVLGQSTCALFLSLRYHNLHP
DYIHGRLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLI LAWSPEEAGRYLETYKAYEQKPADLLME
KLEQDFVSRVTECLTTVKSVNKTDSTLLTTFGSLEQLIAASREDLALCPGLGPQKARRLFDVLHEPFLKVP

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[illegible]

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FIGURE 5505

MEEFQAGDAARFSCPPNFTAKPPASESPRFSLEALTGPDTELWLIQAPADFAPECFNGRHVPLSGSQIVKGKLAG
KRHRVRLSSCPQAGEATLLAPSTEAGGGLTCASAPQGTLRILEGPQQSLSGSPLQIPASPPPQIPPGLRPRFC
AFGGNPPVTGPRSALAPNLLTSGKKKKEMQVTEAPVTQEAVNGHGALEVDMALGSPEMDVRKKKKKKKNQQLKEPE
AAGFVGTEPTVETLEPLGVLFPSSTTKRKKKPKGKETFEPEDKTVKQEQINTEPLEDTVLSPTKKRKRQKGTGEGME
PEEGVTVESQPQVKVEPLEEAIPLPPTKKRKKKEKGQMAMMEPGTEAMEPVEPEMKPLESPGGTMAPQQPEGAKPQ
AQAALAAPKKKTKKEKQQDATVEPETEVVGPPELPDDLEPQAAPTSTKKKKKKKERGHTVTEPIQPLEPELPGEQ
PEARATPGSTKKRKKQSQESRMPETVPQEEMP GPPLNSES GEEAPTGRDKKKRQQQQQPV

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FIGURE 5506A

CGCCTCCCTCCGCCGCCGCTTGGGCCGGCTCCGCGCCCCCTCCGCGGGCCCCCGCCCCGCCCGCTGCCCGCCGCC
CCATGGCGCCCCGGGGTCCCCGCTGCACGGGGCCACTAGGACCCCTCGGCGTCCCTTCCCTCCCGCCCGCTGCCCG
CTCTCCCGCCGCGCGGACCCGGGCGTTCTCGGCGCCAGCTTTTGTAGCTCGCGTCCCCAGGCCGGCGGGGGGGA
GGGAAGAGAGGGGACCCTGGGACCCCCGCCCCCCCCACCCGGCGCCCCCTGCCCGCCGGGACCCGGAGAAGATG

TCTTCGCGGACGGTGCTGGCCCCGGGCAACGATCGGAACTCGGACACGCATGGCACCTTGGGCAGTGGCCGCTCC
TCGGACAAAGGCCCGTCTGTGTCAGCCGCTCACTGGGTGCCCGTTGCCGGAACCTCCATCGCCTCCTGTCCCGAG
GAGCAGCCCCACGTGGGCAACTACCGCTGCTGAGGACCATTTGGGAAGGGCAACTCTGCCAAAGTCAAGCTGGCT
CGGCACATCCTCACTGGTCGGGAGGTTGCCATCAAGATTATCGACAAAACCCAGCTGAATCCCAGCAGCCTGCAG
AAGCTGTTCCGAGAAGTCCGCATCATGAAGGGCCTAAACACCCCCAACATCGTGAAGCTCTTTGAGGTGATTGAG
ACTGAGAAGACGCTGTACCTGGTGATGGAGTACGCAAGTGCTGGAGAAGTGTGACTACCTCGTGTCGCATGGC
CGCATGAAGGAGAAGGAAGCTCGAGCCAAGTTCCGACAGATTGTTTGGCTGTGCACTATTGTACCAGAAAAAT
ATTGTACACAGGGACCTGAAGGCTGAGAACCTCTTGCTGGATGCCGAGGCCAACATCAAGATTGCTGACTTTGGC
TTCAGCAACGAGTTCACGCTGGGATCGAAGCTGGACACGTTCTGCGGGAGCCCCCATATGCCGCCCCGGAGCTG
TTTACGGGCAAGAAGTACGACGGGCCGGAGGTGGACATCTGGAGCCTGGGAGTCATCCTGTACACCTCGTCAGC
GGCTCCCTGCCCTTCGACGGGCACAACCTCAAGGAGCTGCGGGAGCGAGTACTCAGAGGGAAGTACCGGGTCCCT
TTCTACATGTCAACAGACTGTGAGAGCATCCTGCGGAGATTTTTGGTGCTGAACCCAGCTAAACGCTGTACTCTC
GAGCAAATCATGAAAGACAAATGGATCAACATCGGCTATGAGGGTGAGGAGTTGAAGCCATACACAGAGCCCGAG
GAGGACTTCGGGGACACCAAGAGAATTGAGGTGATGGTGGGTATGGGCTACACACGGGAAGAAATCAAAGAGTCC
TTGACCAGCCAGAAGTACAACGAAGTGACCGCCACCTACCTCCTGCTGGGCAGGAAGACTGAGGAGGGTGGGGAC
CGGGGCGCCCCAGGGCTGGCCTGGCACGGGTGCGGGCGCCAGCGACACCACCAACGGAACAAGTTCAGCAA
GGCACCAGCCACAGCAAAGGGCAGCGGAGTTCCTCTTCCACCTACCAACCGCCAGCGCAGGCATAGCGATTTCTGT
GGCCCATCCCTGCACCCCTGCACCCCAAACGCAGCCCGACGAGCACGGGGAGGCGGAGCTGAAGGAGGAGCGG
CTGCCAGGCCGGAAGGCGAGCTGCAGCACCGCGGGAGTGGGAGTCGAGGGCTGCCCCCTCCAGCCCCATGGTC
AGCAGCGCCACAACCCCAACAAGGCAGAGATCCCAGAGCGCGGAAGGACAGCACGAGCACCCCAACAACCTC
CCTCCTAGCATGATGACCCGAGAAACACCTACGTTTGCACAGAACGCGCGGGGGCTGAGCGCCCGTCACTGTTG
CCAAATGGGAAAGAAAACAGCTCAGGCACCCACGGGTGCCCCCTGCCTCCCCCTCCAGTCACAGCCTGGCACC
CCATCAGGGGAGCGGAGCCGCTGGCACGCGGTTCCACCATCCGACGACCTTCCATGGTGGCCAGGTCCGGGAC
CGGCGGGCAGGGGTGGGGGTGGTGGGGGTGTGAGAAATGGGCCCCCTGCCTCTCCACACTGGCCCATGAGGCT
GCACCCCTGCCCCGCGGGCGCCCCACCAACCTCTTACCAAGCTGACCTCAAACGAGGACCCGAAGG
GTTACCCCTCGATCCCTCTAAACGGCAGAACTCTAACCGCTGTGTTTCGGGCGCCTCTCTGCCCCAGGGATCCAAG
ATCAGGTCGCAGACGAACCTGAGAGAATCGGGGGACCTGAGGTACACAAGTTGCCATCTACCTTGGGATCAAACGG
AAACCGCCCCCGGCTGCTCCGATTCCCTTGGAGTGTGAAGCTGACCAGCTCGCGCCCTCCTGAGGCCTGATGG
CAGCTCTGCGCCAGGCCACAGCAGCCGCCCCGCTGCCGCTGCCGCCAGCCACAGCCGTTTCTGTGGCTGCTGCTGC
ACGGGGGTGCGGGCGGGCCCCGAGCCCTGTCCCACTTCGAAGTGGAGGTCTGCCAGCTGCCCGGCCAGGCTTGC
GGGGAGTTCTCTTCCGCCGTGTGGCGGGCACCGCCCTGGCCTTCCGCACCCTCGTCACCCGCATCTCCAACGACC
TCGAGCTCTGAGCCACCACGGTCCCAGGGCCCTTACTCTTCTCTCCCTTGTGCGCTTCACTTCTACAGGAGGGG
AAGGGGCCAGGGAGGGGATTCTCCCTTTATCATCACTCAGTTTCCCTGAATTATATTGGGGGCAAAGATTGTC
CCCTCTGCTGTTCTCTGGGGCCGCTCAGCACAGAAGAAGGATGAGGGGGCTCAGCGGGGGGAGCTGGCACCTTCC
TGGAGCCTCCAGCCAGTCTGTCTCCCTCGCCCTACCAAGAGGGCACCTGAGGAGACTTTGGGGACAGGGCAGG
GGCAGGGAGGGAACTGAGGAAATCTTCCATTCTCCCAACAGCTCAAATAGGCCCTGGGCAGGGGACGGAG
AGCTGCTGAGCCTAAAGACTGGAGAATCTGGGGGACTGGGAGTGGGGGTGAGAGAGGCAGATTCTTCCCTCCC
GTCCCTCAGCTCAAACCCCCACTTCTGCCCCAGGCTGGCGCGGGGCACCTTGTACAAATCCTGTAAATACC
CCACACCTCCCTCTGAAAGGTCTCTTGAGGAGCTGCCGCTGTACCTACGGTTTTTAAGTTATTACACCCCG
ACCCTCCTCCTGTGAGCCCCCTACCTGCAGCCTGTTGCCCAATAAATTTAAGAGAGTCCCCCCTCCCCAATGC
TGACCCTAGGATTTTCTTCCCTGCCCTCACCTGCAAATGAGTTAAAGAAGAGGCGTGGGAATCCAGGCAGTGGT
TTTTCTTTTCGAGCCTCGGTTTTCTCATCTGCAGAATGGGAGCGGTGGGGGTGGGAAGGTAAGGATGGTCTG
AAGAAGGCAGGATGGAACCTCGGCCTCATCCCCGAGGCCCCAGTTCTATATCGGGCCCCCATTCATCCACTCAC
ACTCCCAGCCACCATGTTACACTGGACTCTAAGCCACTTCTTACTCCAGTAGTAAATTTATTGCAATAACAATC

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FIGURE 5506B

ATTGAXCCC

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FIGURE 5507

MSSRTVLAPGNDRNSDTHGTLGSGRSSDKGPSWSSRSLGARCNSIASCPPEQPHVGNRYRLLRITIGKNSAKVKL
ARHILTGREVAIKIIDKTQLNPSSLQKLFREVRIMKGLNHPNIVKLFEVIETEKTLYLMEYASAGEVFDYLVSH
GRMKEKEARAKFRQIVSAVHYCHQKNIVHRDLKAENLLLDAAENIKIADFGFSNEFTLGSKLDTFCGSPPYAAPE
LFQGGKYDGPEVDIWSLGVILYTLVSGSLPFDGHNKELRERVLRGKYRVPFYMSDCEILRRFLVLNPAKRCT
LEQIMKDKWINIGYEGEELKPYTEPEEDFGDTKRIEVMVGMGYTREEIKESLTSQKYNEVTATYLLLGRKTEEGG
DRGAPGLALARVRAPSDTTNGTSSSKGTSHSKGQRSSSSTYHRQRRHSDFCGPSPAPLHPKRSPTSTGEAELKEE
RLPGRKASCSTAGSGSRGLPPSSPMVSSAHNPNAEIPERRKDSTSTPNNLPPSMMTRRNTYVCTERPGAERP
SL
LPNGKENSSTGTPRVPPASPSSHSLAPPSGERSRLARGSTIRSTFHGGQVRDRRAGGGGGGGVQNGFPASPTLAHE
AAPLPAGRPRPTTNLFTKLTSKLTRRVTLDPKQNSNRVSGASLPQGSKIRSQTNLRESGDLRSQVAIYLGK
RKPPFGCSDSPGV

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FIGURE 5508

ACCCGGAGCGGGAAGATGGCGGCGGCGCAGGAGGCGGACGGGGCCCGCAGCGCCGTGGTGGCGGCCGGGGGAGGC
AGCTCCGGTCAGGTGACCAGCAATGGCAGCATCGGGAGGGACCCGCCAGCGGAGACCCAGCCTCAGAACCCACCG
GCCCAGCCGGCACCACATGCCTGGCAGGTCATCAAAGGTGTGCTGTTTAGGATCTTCATCATCTGGGCCATCAGC
AGTTGGTTCCGCCGAGGGCCGGCCCCCTCAGGACCAGGCGGGCCCCGGAGGAGCCCCACGCGTCGCCAGCCGCAAC
CTGTTCCCCAAAGACACTTTAATGAACCTGCATGTGTACATCTCAGAGCACGAGCACTTTACAGACTTCAACGCC
ACGTCGGCACTCTTCTGGGAACAGCACGATCTTGTGTATGGCGACTGGACTAGCGGCGAGAACTCAGACGGCTGC
TACGAGCACTTTGCTGAGCTCGATATCCACAGAGCGTCCAGCAGAACGGCTCCATCTACATCCACGTTTACTTC
ACCAAGAGTGGCTTCCACCCAGACCCCCGGCAGAAAGGCCCTGTACCGCCGGCTTGCCACAGTCCACATGTCCCGG
ATGATCAACAAATACAAGCGCAGACGATTTAGAAAACCAAGAACCTGCTGACAGGAGAGACAGAAAGCGGACCCA
GAAATGATCAAGAGGGCTGAGGACTATGGGCCTGTGGAGGTGATCTCCATTGGCACCCCAACATCACCATCAAC
ATCGTGGACGACCACACGCCGTGGGTGAAGGGCAGTGTGCCCCCTCCCTGGATCAATATGTGAAGTTCGACGCC
GTGAGCGGTGACTACTATCCCATCATCTACTTCAATGACTACTGGAACCTGCAGAAGGACTACTACCCCATCAAC
GAGAGCCTGGCCAGCCTGCCGCTCCGCGTCTCCTTCTGCCCCTCTCGCTTTGGCGCTGGCAGCTCTATGCTGCC
CAGAGCACCAAGTCGCCCTGGAACCTTCTGGGCGATGAGTTGTACGAGCAGTCAGATGAGGAGCAGGACTCGGTG
AAGGTGGCCCTGCTGGAGACCAACCCCTACCTGCTGGCGCTCACCATCATCGTGTCTATCGTTCACAGTGTCTTC
GAGTTCCTGGCCTTCAAGAATGATATCCAGTTCTGGAACAGCCGGCAGTCCCTGGAGGGCCTGTCCGTGCGCTCC
GTCTTCTTCGGCGTTTTCCAGTCATTCTGTTGCTCCTCTACATCCTGGACAACGAGACCAACTTCGTGGTCCAG
GTCAGCGTCTTCATTGGGGTCTCATCGACCTCTGGAAGATCACCAGGTTCATGGACGTCCGGCTGGACCGAGAG
CACAGGGTGGCAGGAATCTTCCCCCGCCTATCCTTCAAGGACAAGTCCACGTATATCGAGTCTCGACCAAGTG
TATGATGATATGGCATTCCGGTACCTGTCTGGATCCTCTTCCCGCTCCTGGGCTGCTATGCCGTCTACAGTCTT
CTGTACCTGGAGCACAAGGGCTGGTACTCCTGGGTGCTCAGCATGCTCTACGGCTTCCTGCTGACCTTCGGCTTC
ATCACCATGACGCCCCAGCTCTTCATCAACTACAAGCTCAAGTCTGTGGCCACCTTCCCTGGCGCATGCTCACC
TACAAGGCCCTCAACACATTATCGACGACCTGTTGCGCTTTGTATCAAGATGCCCGTTATGTACCGGATCGGC
TGCTGCGGGACGATGTGGTTTTCTTCATCTACCTCTACCAACGGTGGATCTACCGCGTCGACCCACCCGAGTC
AACGAGTTTGGCATGAGTGGAGAAGACCCACAGCTGCCGCCCCCGTGGCCGAGGTTCACAGCAGCAGGGGCC
CTCACGCCCACACCTGCACCCACCACGACCACCGCCACCAGGGAGGAGGCCTCCACGTCCCTGCCCACCAAGCCC
ACCAAGGGGGCCAGCTCTGCCAGCGAGCCCCAGGAAGCCCCTCCAAAGCCAGCAGAGGACAAGAAAAAGGATTAG

TCGAGACTGGTCTCACCTGCTCCGGCTCCTGGCGACCACTACCCCTGCGTCCCGGCCCCCTCGCTCCCCCTCCC
TGTCGCCCTTTCCCTGGACAGATCAGGCCGGGGCGGTGGGAGGCCCGCCTCAGGTCAGGGCCAGCGTGTGACGT
AGGGGCCGGGGCAGGCCAGGGTTTGTGTTGTGGAGGCGCTGTCTGTCCCTCTGTCCCTCTGTGTTTCCAGCCATCT
CGCCCTGCCAGCCCAGCACCCTGGAATCATGGTGAAGCTGATGCAGCGTTGCCGAGGGGTGGGTGGGCGGG
GGTGGGGCCGGGCCCCCTACGGGATGCCACGGCCGTTTCATCATCTTGTCCCTCGTCCCCCTACCACTCCCC
CTCCTAGACCGCCGCCCTTTAACACAGTCTGGATTTAATAAATTTCATATGGGTGTTTAACTTAACTCAAAAAA
AAAAAAAAAA

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FIGURE 5509

MAAAQEADGARS AVVAAGGGSSGQVTSNGS IGRDPPAETQPQNPPAQ PAPNAWQVIKGVLFRIFI IWAISSWFRR
GPAPQDQAGPGGAPRVASRNLF PKDTLMNLHVYI SEHEHFTDFNATSALFWEQHDLVYGDWTSGENSDGCYEHFA
ELDIPQSVQQNGSIYIHVYFTKSGFHPDPRQKALYRRLATVHMSRMINKYKRRRFQKTKNLLTGETEADPEMIKR
AEDYGPVEVISHWHPNITINIVDDHTPWVKGSVPPPLDQYVKFDAVSGDYYP I IYFNDYWNLQKDYYPINESLAS
LPLRVSF CPLSLWRWQLYAAQSTKSPWNFLGDELYEQSDEEQDSVKVALLETNPYLLALTI IVSIVHSVFEFLAF
KNDIQFWNSRQSLEGLSVRSVFFGVFQSFVLLYILDNETNFVVQVSFIGVLIDLWKITKVM DVRLDREHRVAG
IFPRLSFKDKSTYIESSTKVYDDMAFRYLSWILFP LLGCYAVYSLLYLEHKGWYSWVLSMLYGFLLTFGFI TMTF
QLFINYKLKSV AHPWRMLTYKALNTFIDDLFAFVIKMPVMYRIGCLRDDVVFFIYLYQRWIYRVDPTRVNEFGM
SGEDPTAAAPVAEVP TAAGALTPTPAPTTTTATREEASTSLPTKPTQGASSASEPQEAPPKPAEDKKKD

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FIGURE 5510

GATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCCCGAGCTGCGCCAGCAGACCGAGTGGCAGA
GCGGCCAGCGCTGGGAACTGGCACTGGGTGCGCTTTTGGGATTACCTGCGCGCCAAGCTGGAGGAGCAGGCCCAGC
AGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAGAGCTGGTTCGAGCCCCTGGTGGAAACATGCAGC
GCCAGTGGGCCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTGGGCACCAGCGCCGCCCTGTGCCAGCGACAATC
ACTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACCCCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGG
AGACCCTGTCCCCGCCCCAGCCGTCTCTCTGGGGTGGACCCTAGTTTAATAAAGATTACCAAGTTTCACGC

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FIGURE 5511

CGCAGCGGAGGTGAAGGACGTCTTCCCCAGGAGCCGACTGGCCAATCACAGGCAGGAAGATGAAGGTTCTGTGG
GCTGCGTTGCTGGTCACATTCCTGGCAGGATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCC
GAGCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAACCTGGCACTGGGTTCGCTTTTGGGATTACCTG
CGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCTCCCAGGTCACCCAGGAACCTGAGGGCG
CTGATGGACGAGACCATGAAGGAGTTGAAGGCCTACAAATCGGAACCTGGAGGAACAACCTGACCCCGGTGGCGGAG
GAGACGCGGGCACGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGCTGGGCGCGGACATGGAGGACGTGTGC
GGCCGCCTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCGCCTC
GCCTCCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTAC
CAGGCCGGGGCCCGCGAGGGCGCCGAGCGCGGCCTCAGCGCCATCCGCGAGCGCCTGGGGCCCCCTGGTGGAAACAG
GGCCGCGTGCGGGCCGCCACTGTGGGCTCCCTGGCCGGCCAGCCGCTACAGGAGCGGGCCAGGCCCTGGGGCGAG
CGGCTGCGCGCGCGGATGGAGGAGATGGGCAGCCGGACCCGCGACCGCCTGGACGAGGTGAAGGAGCAGGTGGCG
GAGGTGCGCGCCAAGCTGGAGGAGCAGGCCAGCAGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAG
AGCTGGTTCGAGCCCCCTGGTGGAAGACATGCAGCGCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTG
GGCACCAGCGCCGCCCTGTGCCCAGCGACAATCATTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACC
CCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGGAGACCCTGTCCCCGCCCCAGCCGTCCTCCTGGGGTGGACCC
TAGTTTAATAAAGATTACCAAGTTTCACGC

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FIGURE 5512

MKVLWAALLVTFLAGCQAKVEQAVETEPEPEL RQQT EWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVT
QELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEE
LRVRLASHLRKLRKRLRLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGS LAGQPLQERA
QAWGERLRARMEEMGSRTDRDLDEVKEQVAEVRAKLEEQAQQIRLQAEAFQARLKSWFEP LVEDMQRQWAGLVEK
VQAAVGTSAAPVPSDNH

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FIGURE 5513

GGCGGCGGCAGCGGGTTGCGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG
CCAGCGACCATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC
GTGGGGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC
ACCACTACGAGTCGAAGTTCGGAACGGACCCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCCGCCGAGGATGGG
GCCTGCGGCTGCCTGCCCAACCCGGGCACATTTCAGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTCAG
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGGAGTCCAACCTACCACTTCGGGGTCACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCAATCACCAGCTGGGCCCCGGTCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAAGTGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTTCACAGCAGCCGTCACCCTGGGGAACCCAGACGTCCTCGTGGGTTCAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCCTTGCTGGCCCTGGGTGGAGAGCTGGTCTACCACCGCGCGCCTGGAGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAAGTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCACTGGACCTGCCCAAGGCCAACCTCCTCTTCAAAGGCTCTGTGGATAGCAACTGG
ATCGTGGGTGCCACGCTGGAGAAGAAGCTCCCAACCCCTGCCCCTGACACTGGCCCTTGGGGCTTCCTGAATCAC
CGCAAGAACAAGTTTTCAGTGTGGCTTTGGCCTCACCATCGGGTTGAGCCCTCCTGGCCCCCGCCTTCCACGCCCTT
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCCCTT
GGGGTTCGGGGGGGGACATTGGAAAGGAGGGACCCGCCACCCAGCAGCTGAGGAGGGGATTCTGGAAGTGAAT
GGCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCAGTGGGCCTGGGGTCCCGGGAGGGATTCCGGAATTGA
GGGACACGCAGGATTCTGAGCACCAGGGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCTGGCGTCCCCA
TCTCCAAAGGGCCTGGGCCCCGCCCGAGGGGGCAGCGAGAGGAGCTTCCCCATCCCCGGTCAGTCCACCCTGCC
CCGTCCACTTTCCCATCTCCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACCGGGACATTTTACAGAAAAA
AAACAAAAAACAACAAAAAATATACGTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5514

MGNVLAASSPPAGPPPPAPALVGLPPPPSPPGFTLPPPLGGSLGAGTSTSRSSERTPGAATASASGAAEDGACG
CLPNPGTFEECHRKCKELFPIQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL
VGDMDSGSLNAQVIHQLGPLRSKMAIQTQQSKFVNWQVDGEYRGSDFTAATLGNPDVLVSGILVAHYLQSI
TPCLALGGELVYHRRPGEEGTVMFLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAFLNHRKNKFQCGFGLTIG

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FIGURE 5515

GAGCAGAACAGGGAGGCTAGAGCGCAGCGGGAACCGGCCCGGAGCCGGAGCCCGAGCCCCACAGGCACCTACTAA
ACCGCCAGCCGATCGGCCCCACAGAGTGGCCCGCGGGCCTCCGGCCGGGGCCAGTCCCTCCCGGGCCCTCCA
TGGCCCCGGCCGCTGCCCTCCTGCCGTCGAGATCGCCGCCGACGCCGCTGCTGTGGCCGCTGCTGCTGCTGCTGC
TCCTGGAAACCGGAGCCAGGATGTGCGAGTTCAAGTGCTACCCGAGGTGCGAGGCCAGCTCGGGGGCACCCTGG
AGCTGCCGTCGCCACCTGCTGCCACCTGTTCTGGACTGTACATCTCCCTGGTGACCTGGCAGCGCCAGATGCAC
CTGCGAACCACCAGAATGTGGCCGCCTTCCACCCTAAGATGGGTCCCAGCTTCCCAGCCCCAAGCCTGGCAGCG
AGCGGCTGTCTTCGTCTCTGCCAAGCAGAGCACTGGGCAAGACACAGAGGCAGAGCTCCAGGACGCCACGCTGG
CCCTCCACGGGCTCACGGTGGAGGACGAGGGCAACTACACTTGCGAGTTTGCCACCTTCCCCAAGGGTCCGTCC
GAGGGATGACCTGGCTCAGAGTCATAGCCAAGCCCCAAGAACCAAGCTGAGGCCCAGAAGGTCACGTTACGCCAGG
ACCCTACGACAGTGGCCCTCTGCATCTCCAAAGAGGGCCGCCCAECTGCCCGGATCTCTGGCTCTCATCCCTGG
ACTGGGAAGCCAAAGAGACTCAGGTGTGAGGGACCCTGGCCGGAAGTGTCACTGTACCAGCCGCTTCACCTGG
TGCCCTCGGGCCGAGCAGATGGTGTACGGTCACCTGCAAAGTGGAGCATGAGAGCTTCGAGGAACCAGCCCTGA
TACCTGTGACCTCTCTGTACGCTACCTCCTGAAGTGTCCATCTCCGGCTATGATGACAACTGGTACCTCGGCC
GTACTGATGCCACCCTGAGCTGTGACGTCCGCAGCAACCCAGAGCCCACGGGCTATGACTGGAGCACGACCTCAG
GCACCTTCCCGACCTCCGCAGTGGCCCAAGGGCTCCCAGCTGGTCATCCACGCAGTGGACAGTCTGTTCAATACCA
CCTTCGTCTGCACAGTCACCAATGCCGTGGGCATGGGCCGCGCTGAGCAGGTCATCTTTGTCCGAGAAACCCCA
GGGCCTCGCCCCGAGATGTGGGCCCGCTGGTGTGGGGGGCCGTGGGGGGGACACTGCTGGTGTGCTGCTTCTGG
CTGGGGGGTCTTGGCCTTCATCCTGCTGAGGGTGAGGAGGAGGAGGAAGAGCCCTGGAGGAGCAGGAGGAGGAG
CCAGTGGCGACGGGGGATTCTACGATCCGAAAGCTCAGGTGTTGGGAAATGGGGACCCCGTCTTCTGGACACCAG
TAGTCCCTGGTCCCATGGAACCAGATGGCAAGGATGAGGAGGAGGAGGAGGAGGAAGAGAAGGCAGAGAAAGGCC
TCATGTTGCCTCCACCCCCAGCACTCGAGGATGACATGGAGTCCCAGCTGGACGGCTCCCTCATCTCACGGCGGG
CAGTTTATGTGTGACTGGACACAGACAGAGACAGAGCCAGGCCCGGCCCTCCCGCCCCGACCTGACCACGCCG
GCCTAGGGTTCCAGACTGGTTGGACTTGTTTCGTCTGGACGACACTGGAGTGGAACTGCCTCCCACTTTCTTGG
GACTTGGAGGGAGGTGGAACAGCACACTGGACTTCTCCCGTCTCTAGGGCTGCATGGGGAGCCCCGGGGAGCTGAG
TAGTGGGGATCCAGAGAGGACCCCGCCCCCAGAGACTTGGTTTGGCTCCAGCCTTCCCCTGGCCCCGCTGACAC
TCAGGAGTTAATAAATGCCTTGGAGGAAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5516

MARAAALLPSRSPEPTLLWPLLLLLLLETTGAQDVRVQVLPEVRGQLGGTVELPCHLLPPVPGLYISLVTWQRPDA
PANHQNVAAAFHEPKMGPSFFSPKPGSERLSFVSAKQSTGQDTEAELQDATLALHGLTVEDEGNYTCEFATFPKGSV
RGMWLRVIAKPKNQAEAQKVTFSSQDPTTVALCISKEGRPPARISWLSSLDWEAKETQVSGTLAGTVTVTSRFTL
VPSGRADGVTVTCKVEHESFEERALIPVTLVRYPPPEVSISGYDDNWYLGRTDATALSCDVRNPEPTGYDWSTTS
GTFPTSAVAQGSQLVIIHAVDSLFTTFVCTVTNAVGMGRAEQVIFVRETTPRASPRDVGPLVWGAVGGTLLVLLLL
AGGSLAFILLRVRRRRKSPGGAGGGASGDGGFYDPKAQVLGNGDPVFWTPVVPVGPMEPDGKDEEEEEEEKAEKG
LMLPPPPALEDDMESQLDGSLISRRAVYV

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FIGURE 5517

AGTCTCCGCCGCCCGCTGAACATGGAGCCCCCGGACGCACCGGCCAGGCGCGCGGGGCCCCGCGGCTGCTGTT
GCTCGCAGTCCTGCTGGCGGCGCACCCAGATGCCAGGCGGAGGTGCGCTTGTCTGTACCCCCGCTGGTGGAGGT
GATGCGAGGAAAGTCTGTCTATTCTGGACTGCACCCCTACGGGAACCCACGACCATTATATGCTGGAATGGTTCCT
TACCGACCGCTCGGGAGCTCGCCCCGCTAGCCTCGGCTGAGATGCAGGGCTCTGAGCTCCAGGTCACAATGCA
CGACACCCGGGGCGCAGTCCCCCATAACAGCTGGACTCCCAGGGGCGCCTGGTGTGGCTGAGGCCAGGTGGG
CGACGAGCGAGACTACGTGTGCGTGGTGAAGGCGAGGGCGGCAGGCACTGCTGAGGCCACTGCGCGGCTCAACGT
GTTTGCAAAGCCAGAGGCCACTGAGGTCTCCCCAACAAAGGGACACTGTCTGTGATGGAGGACTCTGCCCAGGA
GATCGCCACCTGCAACAGCCGGAACGGGAACCCGGCCCCAACATCACGTGGTATCGCAACGGGCAGCGCCTGGA
GGTGCCCGTAGAGATGAACCCAGAGGGCTACATGACCAGCCGCACGGTCCGGGAGGCCTCGGGCCTGCTCTCCCT
CACCAGCACCTCTACCTGCGGCTCCGCAAGGATGACCGAGACGCCAGCTTCCACTGCGCCGCCCACTACAGCCT
GCCCAGGGGCGGCCACGGCCGCTGGACAGCCCCACCTTCCACCTCACCCTGCACTATCCACGGAGCACGTGCA
GTTCTGGGTGGGCAGCCCGTCCACCCAGCAGGCTGGGTACGCGAGGGTGACACTGTCCAGCTGCTCTGCCGGGG
GGACGGCAGCCCCAGCCCGGAGTATACGCTTTTCCGCTTCAGGATGAGCAGGAGGAAGTGCTGAATGTGAATCT
CGAGGGGAACCTGACCTGGAGGGAGTGACCCGGGGCCAGAGCGGGACCTATGGCTGCAGAGTGAGGATTACGA
CGCGGCAGATGACGTGCAGCTCTCAAGACGCTGGAGCTGCGCGTGGCCTATCTGGACCCCTGGAGCTCAGCGA
GGGGAAGGTGCTTTCTTACCTCTAAACAGCAGTGACGTGCTGAACTGCTCCGTGCACGGCCTGCCACCCCTGC
CCTACGCTGGACCAAGGACTCCACTCCCCTGGGCGATGGCCCCATGCTGTGCTCAGTTCTATCACCTTCGATT
CAATGGCACCTACGTATGTGAGGCCTCCCTGCCCACAGTCCCGGTCTCAGCCGCACCCAGAACTTCACGCTGCT
GGTCCAAGGCTCGCCAGAGCTAAAGACAGCGGAAATAGAGCCCAAGGCAGATGGCAGCTGGAGGGAAGGAGACGA
AGTCACACTCATCTGCTCTGCCCCGCGGCCATCCAGACCCCAAACCTCAGCTGGAGCCAATTGGGGGGCAGCCCCGC
AGAGCCAATCCCCGGACGGCAGGGTTGGGTGAGCAGCTCTCTGACCCTGAAAGTGACCAGCGCCCTGAGCCGCGA
TGGCATCTCTGTGAAGCCTCCAACCCACAGGGAACAAGCGCCATGTCTTCCACTTCGGCGCCGTGAGCCCCA
GACCTCCCAGGCTGGAGTGCCCGTCATGGCCGTGGCCGTGAGCGTGGCCCTCCTGCTCCTCGTCGTTGCTGTCTT
CTACTGCGTGAGACGCAAAGGGGGCCCCTGCTGCCGCCAGCGCGGGGAGAAGGGGGCTCCGCCGCCAGGGGAGCC
AGGGCTGAGCCACTCGGGGTTCGGAGCAACCAGAGCAGACCGGCCTTCTCATGGGAGGTGCCTCCGGAGGAGCCAG
GGGTGGCAGCGGGGGCTTCGGAGACGAGTGCTAGAGCCAAGAACCTCCTAGAGGCTGTCCCTGGACCTGGAGCTGC
AGGCATCAGAGAACCAGCCCTGCTCAGGCCATGCCGCCCCCGCCTTCCCTCTTCCCTCTTCCCTCTCCCTGCC
AGCCCTCCCTTCCCTTCTGCGGGCAAGGCAGGGACCCACAGTGGCTGCCTGCCGGAGGGAAGGAGAGGG
AGGGTGGGTGGGTGGGAGGGGGCTTCCCTCCAGGGAATGTGACTCTCCAGGCCCCAGAATAGCTCCTGGACCCA
AGCCCAAGGCCAGCCTGGGACAAGGCTCCGAGGGTGGCTGGCCGGAGCTATTTTACCTCCGCGCTCCCTGC
TGGTCCCCCACCTGACGTCTTGCTGCAGAGTCTGACACTGGATTCCCCCCCCCTACCCCGCCCTGGTCCCACT
CCTGCCCGGCCCTACCTCCGCCCAACCCATCATCTGTGGACACTGGAGTCTGGAATAAATGCTGTTTGTCACA
TC

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FIGURE 5518

MEPPDAPAQARGAPRLLLLAVLLAAHPDAQAEVRLSVPPLVEVMRGKSVILDCTPTGTHDHYMLEWFLTD RSGAR
PRLASAEMQGSELQVTMHDTRGRSPPYQLDSQGRLVLAEAQVGDERDYVCVVRAGAAGTAEATARLNVFAKPEAT
EVSPNKGTL SVMEDSAQEIATCNSRNGNPAPKITWYRNGQRLEVPVEMNPEGYMTSRTVREASGLLSLTSTLYLR
LRKDDRDASFHCAAHYSLPEGRHGRLDSPTFHLTLHYPTHEVQFWVGSPSTPAGWVREGDTVQLLCRGDGSFSPE
YTLFRLQDEQEEVLNVNLEGNLTLEGVTRGQSGTYGCRVEDYDAADDVQLSKTLELRVAYLDPLELSEGKVL SLP
LNSSAVVNC SVHGLPTPALRWTKDSTPLGDGPMLSLSSTTFDSNGTYVCEASLP TVPVL SRTQNFTLLVQGSPEL
KTAEIEPKADGSWREGDEVTLIC SARGHPDPKLSWSQLGGSPAEP IPGRQGWVSSSLTKVTSALS RDGISCEAS
NPHGNKRHVHFHGA VSPQTSQAGVAVMAVAVSVGLLLL VAVFYCVRRKGGPCCRQRREKGAPPPGEPGLSHSGS
EQPEQTGLLMGGASGGARGGSGGF GDEC

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FIGURE 5519

TCCCAGCCGCACCGGTCCTTCCCGGCACACGCGAGGCTCCCATGGCTCTGGCGGTGGCCCCGTGGGGGCGACAGT
GGGAAGAGGCCCCGCGCCCTGGGCCGGGCAGTCAGGATGCTGCAGCGCCTAGAAGAGCAATGCGTCGACCCCCGGC
TGTCCTGTGAGTCCCCCTTCGCTGCGGGACCTGCTGCCCCGCACAGCGCAGCTGCTTCGAGAGGTGGCCCATTC
GGCGGGCGGCGCGGAGGCGGCCCGGGGGTCCCGGCGGCTCTGGGGACTTTCTACTCATCTACCTGGCCAATC
TGGAGGCCAAGAGCAGGCAGGTGGCCGCGCTGCTGCCTCCCCGGGGCCGAAGGAGTGCCAACGACGAGCTCTTCC
GGGCGGGCTCCAGACTCAGGCGACAGCTGGCCAAGCTGGCCATCATCTTCAGCCACATGCACGCAGAGCTGCACG
CACTCTTCCCCGGGGGAAAGTACTGTGGACACATGTACCAGCTCACCAAGGCCCCCGCCACACCTTCTGGAGGG
AAAGTTGCGGAGCCCCGGTGTGTGCTGCCCTGGGCTGAGTTTGAGTCCCTCCTGGGCACCTGCCACCCTGTGGAAC
CAGGCTGCACAGCCCTGGCCTTGCGCACCACCATTGACCTCACCTGCAGCGGGCAGTGTCATCTTCGAGTTTCG
ACGTCTTACCAGGCTCTTTCAGCCATGGCCAACACTCCTCAAGAACTGGCAGCTCCTGGCAGTCACCCACCCAG
GCTACATGGCCTTCTTCACCTATGATGAGGTCCAAGAGCGTCTGCAGGCCTGCAGAGACAAGCCAGGCAGTTACA
TCTTCCGGCCCCAGCTGTACTCGCCTGGGGCAGTGGGCCATCGGCTATGTGAGCTCAGATGGCAGCATCCTGCAGA
CCATCCCTGCCAACAAACCCCTGTCCCAGGTGCTCCTGGAGGGACAGAAGGACGGCTTCTACCTCTACCCAGATG
GAAAGACCCACAACCCAGACCTGACTGAGCTCGGCCAGGCAGAACCCAGCAGCGCATCCACGTGTGAGAGGAGC
AGCTGCAGCTCTACTGGGCCATGGACTCCACATTTGAGCTCTGCAAGATCTGTGCTGAGAGCAACAAGGATGTGA
AGATTGAGCCGTGCGGGCACCTGCTCTGCAGCTGCTGCCTGGCTGCCTGGCAGCACTCGGACAGCCAGACCTGCC
CCTTCTGCCGCTGCGAGATCAAGGGCTGGGAGGCCGTGAGTATCTACCAGTTCTACGGTCAGGCTACTGCTGAGG
ACTCAGGGAACAGCAGTGACCAGGAAGGCAGGGAGTTGGAGCTGGGGCAGGTGCCCTTTTCGGCTCCTCCATTGC
CCCCACGGCCAGATCTGCCCCCAGGAAGCCAGAAATGCCAGCCGAAAGTGAGACTCCTAAAGGGGAACCTCCC
CTCCAGCTGCGCTGGGACCCAGGACCCTGCCCCGGCTTGAAGGCCAGGGCACCCAGATGTGCTGCTCAAGGGAG
CCCCAAGGGCTGGAAGGGGGTTGTGAAACCGAAATAAACTGCCAAGCCTGGTCTGTCAAAAAAAAAAAAAAAAAA

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FIGURE 5520

MALAVAPWGRQWEEARALGRAVRMLQRLEEQCVDPRLSVSPPSLRDLLPRTAQLLREVAHSRRAAGGGPGGPGG
SGDFLLIYLANLEAKSRQVAALLPGRGRSANDELFRAGSRLRRQLAKLAIIFSHMHAELHALFPGGKYCGHMYQ
LTKAPAHTFWRESCGARCVPWAEFESLLGTCHPVEPGCTALALRTTIDLTC SGHVSIFEFDVFTRLFQPWPTLL
KNWQLLAVTHPGYMAFLTYDEVQERLQACRDKPGSYIFRPSCTRLGQWAIGYVSSDGSILQTIPANKPLSQVLE
GQKDG FYLYPDGKTHNPDLELQAEPPQRIHVSEEQLQLYWAMDSTFELCKICAESNKDVKIEPCGHLLCSCCL
AAWQHSDSQTCPFRCRCEIKGWEAVSIYQFYGQATAEDSGNSSDQEGRELELGQVPLSAPPLPPRPDLPPRKPRNA
QPKVRLLLKGNSPPAALGPQDPAPA

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FIGURE 5521

ACCATTGGAGCTGAGGCGGCTGCTGCTCTCGGGGGAGGTGTTGGCGCTCCGGTCAGGGGAGGGGTCTGGCTGGGA
GGTGGAAGCAGGCCGGGTGGCCTTCCCCCTCAGGATGTCGATGACCCTGCGGCTGCGCGCCACCATGAGCGGCGT
GTCGTTGTGGCAGTTCTTGAGGCTGCTGTCAGCGCCGCTGCGGACCAGCGTGCGCACCAGCGGGAGGAGCCCGCG
GCCGGACGCTGAGTGCAGGGCGGAGCTGCCGGAGTACATTTGCGCGTTCACGTTGGCGCCGTGCTGCAGCAGCAG
CTGCACCATGCTAAGGCTGTTGTTTTCCACGGCGTGGATGAGCGGGGAGCGGCCG

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FIGURE 5522

GCCCCGTATGCCCCGCGGGCGCATGTGACGAGGGGCGCGTGGACTGCGCACCCGGGCCAAGGCCACTGGACTCCC
GGGCGCCGCGCTGCCGCTCCGCAAGCGCCCGCTGCGCCGCCCTTCCCCGGAGCCCGCCGCTCCCCGCGGGCGCTG
CGGGCCTTGTGCTCCCCCTGGACCCTCTGCGCGGCGGCTGCGACCTGCCGGCGGTCCCCGGGCCCCCCACGGCC
TGGCCCGCCGGAGGCGCTTTACTACCCCGGAGCCTTACTGCCTTTGTACCCCACTCGGGCCATGGGCTCCCCGTT
TCCTCTGGTGAACCTGCCTACACCCCTATACCCCATGATGTGCCCCATGGAACACCCCTTTCTGCTGACATCGC
CATGGCCACCCGTGCAGATGAGGACGGAGACACGCCTCTCCATATTGCTGTGGTGCAGGGTAACCTGCCAGCTGT
GCACCGGCTGGTCAACCTCTTCCAGCAGGGGGGCGGGAGCTCGACATCTACAACAACCTACGGCAGACACCGCT
CCACCTGGCTGTGATCACCACATTACCGTCTGTGGTCCGGCTCCTGGTGACAGCTGGTGCCAGCCCCATGGCGCT
GGACCGCCATGGCCAGACGGCCGCTCACCTGGCGTGCGAGCACCGCAGCCGACCTGCCTGCGAGCCCTGCTGGA
CAGCGCAGCTCCGGGCACGTTGGACCTGGAGGCCCCGCAATTATGACGGGCTCACCGCCCTGCACGTGGCAGTGAA
CACCGAGTGCCAAGAAACCGTGCAGCTCTTGCTAGAGCGCGGTGCCGACATCGACGCAGTGGACATTAAGAGCGG
CCGCTCCCCGCTCATCCACGCCGTGGAACAACAGCCTTAGCATGGTGCAGCTGCTGCTGCAGCACGGCGCCAA
CGTGAACGCGCAAATGTACTCCGGCAGCTCCGCCCTGCACTCAGCGTCCGGCCGCGCGGCTCCTCCCGCTGGTGGC
CACGCTGGTCCGACGGCGCTGACAGCAGCCTCAAGAACTGCCACAACGACACGCCGCTCATGGTGGCGCGCAG
CCGAGGGTCATCGACATCCTGAGGGGGAAGGCCACCCGGCCTGCTTCCACCTCCCAGCCAGACCCCTCCCCTGA
CCGGAGCGCCAACACCTCCCCCGAGAGCAGCAGCCGCTCAGCTCCAATGGTCTTCTCTCCGCATCACCATCCTC
CTCACCTCCCAGTCTCCCCCAGGGACCCCTGGATTCCCCATGGCTCCTCCCAATTTCTTCTTCTTCCCC
ATCTCCACCCGCTTCTTCCCTTTGCTGGGGTCTCCGAGGCCCTGGCCGGCCGGTGCCCCCTCCCAGCTCC
AGGAGGCAGCTGAGGGGGATGGGGGGGAGATCTTGACTCATGAGGAGGGGCCCCCTGCCCTGTGGGGTCAAC
CCTTCTGGAACCTGTGAAGATCTACTCTGCCCCCCCCATCTTCGGGACAGGATTTGCACAGAAGCACATGCA
CCTACCCATACACCCCTCTTCTGAGCAGATGTTCCCCATCTCGCTCCCTCCCAGGACTCTGACCCACAGCAT
TCTCAGGCACCACTCCCTGTCCGGAATGCCACCCACATCTTCCATTTCCATGTCCCCTCCCAGAGCTGGTGGACC
CAGGGAACAGCCACTCCCCCTCACTCTCTACCAGATAACTGAGGAGGGGAGAGGTGGGCCGTAACGGGCACGGAT
CACGATGTAAATTATTAAGCATTTTGGTTGGATTTCTTTTGTAAATAAACTATTTTTGTACCAT

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FIGURE 5523

CCGAGGGTCAGGCTGCAGAAAGCCAGAAATCCCACCCAGTCCCCAAGTACAGAGGTCGCTGTCAAGATGGAGTTT
CCAACCCAGTAAATCCAAGGGCCAGACCGTGACCTCATAAAGCATGATCTCCTTCTGTCCAGACTGTGGCAAAAG
TATCCAAGCGGCATTCAAATTCTGCCCTACTGTGGAAATTCCTTTCCTGTAGAGGAGCATGTAGGGTCCCAGAC
CTTTGTCAATCCACATGTGTATCCTTCCAAGGCTCAAAGAGAGGGGCTGAACTCCAGTTTTGAAACCTCTCCTAA
GAAAGTGAATGGTCCAGCACCGTCACCTCTCCCCGATTATCCCTCTTCTCAGATGGTGACAGTTCTGAGTCTGA
AGATACTCTGAGTTCTCTGAGAGATCCAAAGGCTCCGGGAGCAGACCCCCAACCCCAAAAGCAGCCCTCAGAA
GACCAGGAAGAGCCCTCAGGTGACCAGGGGTAGCCCTCAGAAGACCAGCTGTAGCCCTCAGAAGACCAGGCAGAG
CCCTCAGACGCTGAAGCGGAGCCGAGTGACCACCTCACTTGAAGCTTTGCCACAGGGACAGTGCTGACAGACAA
GAGTGGGCGACAGTGGAAGCTGAAGTCCTTCCAGACCAGGGACAACAGGGCATTCTCTATGAAGCTGCACCCAC
CTCCACCCCTCACCTGTGACTCAGGACCACAGAAGCAAAAGTTCTCACTCAAAGTGGATGCCAAGGATGGGCGCTT
GTTCAATGAGCAGAACTTCTTCCAGCGGGCCGCAAGCCTCTGCAAGTCAACAAGTGAAGAAGCTGTACTCGAC
CCCCTGCTGGCCATCCCTACCTGCATGGGTTTCGGTGTTCACAGGACAAATACAGGTTCTTGGTGTATCCAG
CCTGGGGAGGAGCCTTCAGTCGGCCCTGGATGTGAGCCCAAAGCATGTGCTGTGAGAGAGGTCTGTGCTGCAGGT
GGCCTGCCGGCTGCTGGATGCCCTGGAGTTCTTCCATGAGAATGAGTATGTTTATGGAAATGTGACAGCTGAAAA
TATCTTTGTGGATCCAGAGGACCAGAGTCAGGTGACTTTGGCAGGCTATGGCTTCGCCTTCGCTATTGCCCAAG
TGGCAACACGTGGCCTACGTGGAAGGCAGCAGGAGCCCTCACGAGGGGGACCTTGAGTTCATTAGCATGGACCT
GCACAAGGGATGCGGGCCCTCCCGCCGAGCGACCTCCAGAGCCTGGGCTACTGCATGCTGAAGTGGCTCTACGG
GTTTCTGCCATGGACAAATTGCCTTCCCAACTGAGGACATCATGAAGCAAAAACAGAAGTTTGTGATAAGCC
GGGGCCCTTCGTGGGACCTGCGGTCACTGGATCAGGCCCTCAGAGACCCTGCAGAAGTACCTGAAGGTGGTGAT
GGCCCTCACGTATGAGGAGAAGCCGCCCTACGCCATGCTGAGGAACAACCTAGAAGCTTTGCTGCAGGATCTGCG
TGTGTCTCCATATGACCCATTGGCCTCCCGATGGTGCCCTTAGGTGGAATCCAGAAGTTTCCATTTGCAGTGTGC
AACAGAAAAAAAATGAAGCAATGTGACTCAAGGCCTGCTGTTTAATCACAGATAAGCTTCTAGAACAAGCCCTG
GAATGTGCATTCTGCCACTGGTTTCAGGATACTCATCAGTCCTGATTAGCCTCCGGAGGGCCCCAGTTTCCCTC
CCGTGAATGTGAAGTTCCCATCTTGGTGGCCTGCCCTTCAGCCAGTGTCTAGCAAAGCTGGATGGGGTTGGGC
CGGCCACAGGGGGGACCCCTCTACCCCTGACTCCTCTGTGCTTTGGTAATAAATTGTTTTACCAGAG

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FIGURE 5524

MISFCPDCGKSIQAAFKFCPYCGNSLPVEEHVGSQTFVNP HVSSFQGSKRGLNSSFETSPKKVKSSTVTSPRLS
LFSDGDSSESED TLSSERSKSGSRPPTPKSSPQKTRKSPQVTRGSPQKTSCSPQKTRQSPQTLKRSRVTTSL
ALPTGTVLTDKSGRQWKLKSFQTRDNQGILYEAAPTSTILTCDSGPQKQKFSLKLDKDGRLFNEQNFFQRAAKPL
QVNKWKLYSTPLLAIPTCMGFGVHQDKYRFLVLP SLGRSLQSALDVSPKHVLSERSVLQVACRLLDALFLHEN
EYVHGNVTAENIFVDPEDQSQVTLAGYGFAFRYCPSGKHVAYVEGSRSPHEGDLEFISMDLHKGCGPSRRSDLQS
LGYCMLKWLYGFLPWTCNCLPNTEDIMKQKQKFVDKPGPFVGP CGHWIRPSETLQKYLKVVMALTYEEKPPYAMLR
NNLEALLQDLRVSPYDPIGLPMVP

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FIGURE 5525

ATTCATTCCCTGTCTCTCGGATCACAGTCTCTTCTCACTACAGTGTGCGCGCCTCTGCCTGCGTAGCCCCGGCCAT
GGCTCTGTAGCCTCGACCCCTTTGTGCCCCCGGCCGTCTCCGCGCTCACCACGCCTGCGCTCTCCGCTCCCACC
TTCTTTCTTCAGCCGAGGCCGCCGCCCTCTCCTTGCTGCAGCCATGGAGTCTTCCACTTTCGCTTGGTGCT
GTCTTCGCCCACCTGAGCATCCTCCAGAGCCTCGTGCCAGCTGCTGGTGCAGCCTCTCTGTGCCATCAGTGCC
CAGCACTGTGCTACAGCCATGTCACCTCTGGCGACCCCTGGGGCTGGAGCTGGACAGGGCCCTGCTCCAGCTAG
TGGGCTGGGATGGCTCGTAGACTATGGGAACTCCCCCGGCCCTGCCCCCTGGCTCCCTATGAGGTCTTGG
GGGAGCCCTGGAGGGCGGGCTTCCAGTGGGGGGAGAGCCCTGGCAGGTGATGGCTTCTCTGACTGGATGACTGA
GCGAGTTGATTTACAGCTCTCTCCCTCTGGAGCCTCCCTACCCCCCGGCACCTCCCCAACCTTCCCCAAC
CCCACCTGACCTGGAAGCTATGGCCTCCCTCCTCAAGAAGGAGCTGGAACAGATGGAAGACTTCTTCTAGATGC
CCCGCCCCCTCCCAACCCTCCCCGCCGCCACTACCACCACCACCTACCACCAGCCCCCTCCCTCCCTCTGTC
CCTCCCTCCTTTGACCTCCCCAGCCCCCTGTCTTGATACTCTGGACTTGCTGGCCATCTACTGCCGAACGA
GGCCGGGCAGGAGGAAGTGGGGATGCCGCCTCTGCCCCGCCACAGCAGCCCCCTCCTCCTTCTCCACCTCAACC
TTCTCGCCTGGCCCCCTACCCACATCCTGCCACCACCCGAGGGGACCGCAAGCAAAAGAAGAGAGACCAGAACAA
GTCGGCGGCTCTGAGGTACCGCCAGCGGAAGCGGGCAGAGGGTGAGGCCCTGGAGGGCGAGTGCCAGGGGCTGGA
GGCACGGAATCGCGAGCTGAAGGAACGGGCAGAGTCCGTGGAGCGCGAGATCCAGTACGTCAAGGACCTGCTCAT
CGAGGTTTACAAGGCCCGGAGCCAGAGGACCCGTAGCTGCTAGAGGGCAGGGGTGTGGCTTCTGGGGGCTGGTC
TTCAGCTCTGGCGCCTTCATCCCCCTGCCTCTACCTTCATTCCAAACCCCTCTCGGCCGGGTGCAGTGGCTTATG
CTTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGTTTGGAGCCAGGAGGTCAATACCAGCCTGGGCA
ACATAGTAAGACCCTGTCTCTATTAAAAAATCAACCCCTTCTTCCCCACCAAACCACTCCTCTCT
ACTCTTATCCTTTTATCCTCTGTCTCTGCTTATCACCTCTCTTGCGTATTTCTGGATCTCCTTCCCTCCTTTCTC
GTCCAAATCATGAAATGTTTGGCCTTAGTCAATGTCTATGCCCGTCACATAACAGCCGAGGCACCGAGGCCACA
GGGAAGCAGCTGGGAGCTTGGAACCTGGTCTCTTGAATTTCAAACCTGGTTTCTTACAGGTGGTTGTCTGGGGT
GGGTGGAGTGGCGACAGGATAGAGCTGAAGGACTATGCAAATGAGGAAGTAAGTCAGGGCGGGCTTTGAGAAGGG
GACCCATATCCTACAGGCAAAAGCAGGCTAGGTGACCTTGGGACACTACGCTAAGGGAGGGAGGCTAAAGGCGG
CCAGGTTTGCAGTGCGGGAAGATGAGCAGGCCAGTGGGAGGAGGGGCAGGGCAGGGCTGTAGTTGGTGACTGGGT
GTTCATTTTAGCTCTAAGAAAAAATCAGTGTTTCGTGAAGGTGTTGGAGAGGGGCTGTGTCTGGGTGAGGGAT
GGCGGGGTACTGATTTTTTTGGGAGGTTATGAGCAAAAATAAAACGAAACATTTCTCTCTG

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FIGURE 5526

MSLLATLGLELDRALLPASGLGWLVDYGKLPAPAPLAPYEVLGGALEGGLPVGGEPLAGDGFSDWMTERVDFTA
LLPLEPPLPPGTLPPSPPTPDLEAMASLLKKELEQMEDFFLDAPPLPPSPPPPLPPPLPPAPSLPLSLPSFDL
PQPPVLDTLDLLAIYCRNEAGQEEVGMPPPLPPPPQPPPPSPPPQPSRLAPYPHPATTRGDRKQKKRDQNKSAALRY
RQRKRAEGEALLEGECQGLEARNRELKERAESVEREIQYVKDLLIEVYKARSQTRSC

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FIGURE 5527

GCGACCGTGATTCCCCGCTCGCGACTCCCCACCCCCAGGGCTCCCTAAAGAGGGCCACGAGCTGCGAAAGGGCG
GGAAAGGCAGTTGGAGAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGGCCTCGG
CTGAAGAAAGAAGGTGGGAGCGGAGAGCGCAGGCGTGAAACCCACCTTGTCCCATCCACATCAGGACATCCCAGC
TGGAGTTCAACCTTCATCCCTTCTGTGGCAGTTAGGAGACTGAATCAAGGTCCAGAGAAGGTGGAGGAATCCTGA
TACTGAGCGGAAGAAAATACACAGATGTGCTTCCCTCCAGTCTGACAAATGGCCTTTCTTAAGTTCCCTCATT
AATTCATATGAAGACAACACATTTGGTGACTAAATTTGGAATCAGAGGCTTTTAAAGCCTCCAGCTGCTCTGAC
CCCAATATCAGGAACCTTGGCATCTCTGATCTAACAAGGGCACCATAACAAGGACAAAGCCACCATCATTACCT
TGATTCCGCACATGCCAACGATGACTTCTGTCTGGGCTAACCATCAAGGCCATGGGTGCTGAGAGAGCCCCC
AGAGGCAGCCATGCACCTGCACCTCCTCGTCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCAGGACTGGA
AGGCTGAACGCAGCCAAGACCCCTTCGAGAAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTGA
CCTGGGGGCTCAATCGGACCCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCCG
CCAAGGTGCTCAGCGATGCTGGACACAAGGTCAACCATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTCA
CCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCAGCTCTCACAGGATCCTCC
ACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTCAACCCAGTACGACAAGAACACGTGGACGGAGGTGC
ACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCCGAGAAGCTGGGCTACGCCTTGCCTCCCCAGGAAA
AGGGCCACTCGCCCGAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCA
GAAAGGCGATGAAGAAGTTTGAAGGCACACGCTCTTGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCGG
CCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGCGCAX
CAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGATGCCGCGCGCGCTGCTGAG
CTCGCTGTCCGGGCTTGTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCA
GATCGAGACCTCTCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGTGCTGACGGCGAGCGGACC
GGCGGTGAAGCGCATCACCTTCTCGCCGCCGCTGCCCGCCACATGCAGGAGGCGCTGCGGAGGTGCACTACGT
GCCGGCCACCAAGGTGTTCCCTAAGCTTCCGCAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCAA
CACCGATCGCCCGTCGCGCATGATTTCTACCCGCCGCCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACGTG
GTCGGACGCGGCGGCGAGCGTTCGCCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCGGC
ATTGCACGGGCTTGTGCTGCGCCAGCTCTGGGACGGCACCGGCGTCTCAAGCGTTGGGCGGAGGACCAGCACAG
CCAGGGTGGCTTTGTGGTACAGCCGCCGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGCCG
CATCTACTTTGCCGGCGAGCACACCGCCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGCGC
CGCCATCAAGATCAACAGCCGAAGGGGCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATGGA
GGGGCAGGGGCATGTGCATGGGGTGCCAGCAGCCCTCGCATGACCTGGCAAAGGAAGAAGGCAGCCACCTCC
AGTCCAAGGCCAGTTATCTCTCAAAACACGACCCACACGAGGACCTCGCATTAAAGTATTTTCGGAAA

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FIGURE 5528

GAAGAGGTAAGCGGTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGGCCTCGGCTGAAGAAAGAAGAA
ATCTTCCCAAGGCTGCAGACACCGACGGATTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAGCC
ATGAGCGGGTTAATTTTGGAGGCACTGGGGCCCCCTACAGGCGGGTTCAGTTTGGCACTGCAAAGACGGCAACA
ACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAACCA
GCCACAAGTACCCCTTCCACCGGCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCACT
TTTGGAAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGAGC
AACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCATA
TCGAGCACCGTCACTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGGCT
CCAGCTACCACATCTGGAGGCTTCTCATTCACTGGTGGAAGCACGGCCCAACCCTCCGGTTTCAACATTGGCTCA
GCAGGGAATTAGCCACGCCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAGCA
GGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCAGCCTCTTTCGTCAATA
GCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCACT
GCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTGCC
ACCGCCACCGCCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAACCACTGGCGCCAGCC
GGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGGCGCAGCTGCAGGGGCGGCTGCCAGC
TCCGCCATGACCTACGCGCAGCTGGAGAGCCTGATCAACAAATGGAGCCTGGAGCTAGAGGACCAGGAGCGGCAC
TTCTTCCAGCAGGCCACCCAGGTCAACGCCTGGGACCGCACGCTGATCGAGAATGGAGAAAAGATCACCAGCCTG
CACCGCGAGGTGGAGAAGGTGAAGCTGGACCAGAAGAGGCTGGACCAGGAGCTCGACTTCATCCTGTCCAGCAG
AAGGAGCTGGAAGACCTGCTGAGCCCACTGGAGGAGTTGGTCAAGGAGCAGAGCGGGACCATCTACCTGCAGCAC
GCGGATGAGGAGCGTGAGAAAACCTACAAGCTGGCTGAGAACATCGATGCACAGCTCAAGCGCATGGCCAGGAT
CTCAAGGACATCATCGAGCACCTGAACACGTCCGGGGCCCCCGCCGACACCAGTGACCCACTGCAGCAGATCTGC
AAGATCCTCAATGCGCACATGGACTCACTGCAGTGGATCGACCAGAACTCGGCCCTGCTGCAGAGGAAGGTGGAG
GAGGTGACCAAGGTGTGCGAGGGCCGGCGCAAGGAGCAGGAGCGCAGCTTCCGGATCACCTTTGACTGAGCGACA
GCAGCCCTGGGGCCCGCAGGTCCCTAGGGAGTTCATGAGGGGAATGCGCCCTGTTGTCTGTAGTTTGGGGTTGTG
GCAAGATACTTGTTTGTGTTTCTTTCTTTTACA

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FIGURE 5529

CTGTAGTCCTGGCACTTTGAGAGGACAAAGAGGGAGGATCGCTTGAGCCCAGGAGTTGAAGACCAGGGCAACAGA
AAATCTTCCCAAGGCTGCAGACACCGACGGATTTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAG
CCATGAGCGGGTTTAATTTTGGAGGCACTGGGGCCCCCTACAGGCGGGTTTACGTTTGGCACTGCAAAGACGGCAA
CAACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAAC
CAGCCACAAGTACCCCTTCCACCGGCCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCA
CTTTTGGAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGA
GCAACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCA
TATCGAGCACCGTCACTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGG
CTCCAGCTACCACATCTGGAGGCTTCTCATTCACTGGTGGAAAGCACGGCCCAACCTCCGGTTTCAACATTGGCT
CAGCAGGGAATTAGCCCAGCCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAG
CAGGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCAGCCTCTTTGCGTCAA
TAGCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCCA
CTGCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTG
CCACCGCCACCGCCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAACCCTGGCGCCAG
CCGGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGG

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FIGURE 5530

CCGGTCAGCTAAGGCCATGTTAATACGGGGCTGTCCCATCTCTCTGCGGGGCGCGACAGCTGGAAGAGCCGAACG
GATAAGAGAAGAGGAGAGCGCGGATGGCGTCGGGGCGCCCCGAGGAGCTATGCTGCCCATGGTCGAGGAGCCCTG
GCGGAGGCAGCGCGCCGTTGCCTCCACGACATCGCACTGGCCCCACAGGGCTGCCACTGCTGCTCGGCCCTCCTGCG
CCCCACCAGCACCCACAGCCACCCAGTCCACACCCAGCCCCACCCCGGCCTACCCTGGCCAGAGAGGACAACGAG
GAGGACGAGGATGAGCCACAGAGACAGAGACCTCCGGGGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTT
GTGATGGATGAGGACGCCACCCTCCAGGACCTTCCCCCTTCTGTGAGTCAGACCCCGAGAGTACAGATGATGGC
AGCCTGAGCGAGGAGACCCCGCGCGCCCCCACCTGCTCAGTGCCCCCAGCCTCAGCCCTACCCACACAGCAG
TACGCCAAGTCCCTGCCTGTGTCTGTGCCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTCATCAGAT
GAGGAGAATGGGCGCCCTCTTCGCCCCGACCTGGACCGCATCGCGGCGAGCATGCGCGCGCTGGTGCTGCGAGAG
GCCGAGGACACCCAGGTCTTCGGGGACCTGCCACGGCGCGGCTTAACACCAGCGACTTCCAGAAGCTGAAGCGG
AAATATTGAAGTCCAGGGAGGGAGCGCCCCGGGCGCGCTCCGCCCCGTCCACACTACGCCCCCGCCCCACTCCC
GGGGCCTGCTAATCTGAGGCCGATCCGGGACCGGCCTCCTTGCGTCTCCCATTTCCCAAGATTGTCCCGCCTCTGC
CAATCCCCGCGCTCCTTCCAGCCACGACCTGCCGCGCGGAGGAGCGGCATCTGTCCCGTTTCCCGATTGGGTCT
GTCGTCTCTCTCCGCCTAGCGACAGATTCCCTTCTATTAAAGGGATTGGCTCGCTGAGTTCTAAGCTCTAAATGGGT
CAACTCCTTTTGTTCGCGCTAGCGACAAGGGATTGTGCTCGCACGGCATTGGCTCCATCCCTAGTCGCTGGACA
GCTCTTTTTTTGATTGGCTCAAATCCTGTAAAGGGCTTGACCAGTCTCTACATAGTCACCGTCCGCTTTTCTCTGA
GTTCTCCCTCCCAATTGGCTCCAGCTTCTGGGGGCGTGGCCAAGCCCTCCTCTTCCCAGAATTGGCCCGGGGCC
TTCAATTTACGTTCTTTTACACTACGGGGACTGGGGTCGTCTTTGCCCCACGTCCCGACAACCTTGTTCCCTGACCCC
CTCAGGGATGGCCCCAAACTGTCCCTGCCTCTGGCACCCCTTTTATTGGTTCCATCCATCCCCACAACAGCCTG
CCAATCGAAGCCCGTCCCTGCATCCAGGATGGTACCAGTCCCGCCCCCTCGCCCCCACCTCCACAGGTGCCTTA
AAGGGCCCTCGTCCACCCAAGGTGGGGGCGAGGGGCCCTCACTCTCCGGCCCTGGTGTGGGGGAGAGAGTGAGGG
GTTGGGGGATCGGCAGTTGGGAGGGGCGCTCTGAGATTAAAGAGTTTACCTCTGAGAT

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FIGURE 5531

GCCGGGTTGCAGGCGGGGCACCTCGGGCAGGACCTCCCTGGTTCGGAAGTGGCCGTGAGCCCAAGCCGCGGTCCGG
GGCCGGCACCCAGGATGGGCGAGGTGGAGGCCCCGGGCGCTTGTGGCTCGAGAGCCCCCTGGGGGAGCGCCCC
CATCTTCCTGCCCTCGGACGGGCAAGCCCTGGTCTCGGGCAGGGGACCCCTGACCCAGGTTACGGACCGGAAGTG
CTCCAGAACTCAAGCCTGAAGCAGGCCACACTCCCCAGAAATGAGGGACCCAATCACACAAGGATGCAAACTCTG
ACTCCACCCCTCCAATCCTCAGTGGAGCTGGTTCGAGATCCTGAGACCCGGACAGTGGCAGTGAACAGCTGGGA
GTTAACCCTCAACTACCGGGACCCAGGAGTTGAAGCCGGGGTTGGAGGGCTCTCTGGGGGTGGGGGACACACTG
TATTTGGTCAATGGCCTCCACCCACTGACCCTGCGCTGGGAAGAGACCCGCACACCAGAATCCCAGCCAGATACT
CCGCTGGCACCCCTCTGGTGTCCCAAGATGAGAAGAGAGATGCTGAGCTGCCGAAGAAGCGTATGCGGAAGTCA
AACCCCGGTGGGAGAACTTGGAGAAGTTGCTAGTGTTCACCGCAGCTGGGGTGAAACCCAGGGCAAGGTGGCT
GGCTTTGATCTGGACGGGACGCTCATCACCACACGCTCTGGGAAGGTCTTCCCACTGGCCCCAGTGAAGTGGAGG
ATCTTGTACCCAGAGATTCCCCGTAAGCTCCGAGAGCTGGAAGCCGAGGGCTACAAGCTGGTGATCTTCACCAAC
CAGATGAGCATCGGGCGCGGAAGCTGCCAGCCGAGGAGTTCAAGGCCAAGGTGGAGGCTGTGGTGGAGAAGCTG
GGGGTCCCTTCCAGGTGCTGGTGGCCACGCACGCAGGCTTGTACCGGAAGCCGGTGACGGGCATGTGGGACCAT
CTGCAGGAGCAGGCCAACGACGGCACGCCCATATCCATCGGGGACAGCATCTTGTGGGAGACGCAGCCGGACGC
CCGGCCAACTGGGCCCCGGGGCGGAAGAAGAAAGACTTCTCCTGCGCCGATCGCCTGTTTGCCCTCAACCTTGGC
CTGCCCCTTCGCCACGCTGAGGAGTTCTTTCTCAAGTGGCCAGCAGCCGGCTTCGAGCTCCCAGCCTTTGATCCG
AGGACTGTCTCCCGCTCAGGGCCTCTCTGCCTCCCCGAGTCCAGGGCCCTCCTGAGCGCCAGCCCGGAGGTGGTT
GTCGAGTGGGATTCCCTGGGGCCGGGAAGTCCACCTTTCTCAAGAAGCACCTCGTGTGCGCCGGATATGTCCAC
GTGAACAGGGACACGCTAGGCTCCTGGCAGCGCTGTGTGACCACGTGTGAGACAGCCCTGAAGCAAGGGAAACGG
GTCGCCATCGACAACACAAACCCAGACGCCGCGAGCCGCGCCAGGTACGTCCAGTGTGCCCAGCCGCGGGCGTC
CCCTGCCGCTGCTTCTCTTACCAGCCACTCTGGAGCAGGCGCGCCACAACAACCGGTTTTGAGAGATGACGGAC
TCCTCTCATATCCCGTGTGACACATGGTCATGTATGGCTACAGGAAGCAGTTTCAGGGCCCCAACGCTGGCTGAA
GGCTTCTCTGCCATCCTGGAGATCCCGTTCCGGCTATGGGTGGAGCCGAGGCTGGGGCGGCTGTACTGCCAGTTC
TCCGAGGGCTGAGCCCCGCCAGCTCCCCTCCACAATAAACGCTGTTTCTCCTTG

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FIGURE 5532

GGCTGCGGCTGCAGTGGTGGTGGCGGGTACCGCACGGGGTATGGTCCCCGGGTCCGAGGGCCCCGGCCGCGCCGG
GAGCGTGGTGGCCGACGTGGTGTGTTGTGATTGAGGGTACGGCCAACCTGGGACCCTACTTCGAGGGGCTCCGCAA
GCACTACCTGCTCCCCGGCCATCGAGTATTTTAAATGGTGGTCCTCCTGCTGAGACGGACTTCGGGGGAGACTATGG
GGGGACCCAGTACAGCCTCGTGGTGTTC AACACAGTGGACTGCGCTCCCGAGTCCTACGTACAATGTCACGCTCC
CACCAGCAGCGCCTATGAGTTTGTACCTGGCTCGATGGCATTAAAGTTTCATGGGCGGGGGTGGTGAGAGCTGCAG
CCTCATCGCGGAAGGACTCAGCACAGCCTTGAGCTGTTTGATGACTTCAAGAAGATGCGCGAGCAGATTGGCCA
GACGCACCGGGTCTGCCTCCTCATCTGCAACTACCCCCATACTTGTTGCCTGCTGTTGAGAGCACCACGTA CT
TGGATGCACAACTGAGAACTTGTGTGAGCAGATTGGGGAGCGGGGGATCCACTTCTCCATTGTGTCTCCCCGAA
GCTGCCTGCGCTTCGGCTTCTGTTTGAGAAGGCAGCCCCCGGCCTTGCTGGAGCCGCTGCAGCCTCCGACAGA
TGTGAGCCAGGACCCGAGGCACATGGTGTCTGGTTCGGGGACTCGTGCTGCCTGTTGGGGGTGGCTCAGCCCTAGG
CCCCCTCCAGTCAAAGCAGCCAGTCCCCCTGCCTCCCGCCGACCCCTCAGGTGCCACTCTCTCAGCAGCCCCCA
GCAGCCTCTGCCCCCGTCCCCCGCAGTACCAGGTTCCCGGGAACCTGAGTGCAGCTCAGGTGGCCGCGCAGAA
TGCAGTGGAGGCTGCCAAGAACCAGAAGGCTGGGCTGGGCCCTCGCTTCTCGCCCATCACCCCTCTCCAACAAGC
TGCTCCCGGAGTGGGTCCCCCTTCAGCCAGGCCCCAGCTCCCCAACTACCCCCAGGACCCCCCTGGCGCCCCCA
GCCACCACCTGCTTCCCAGCCCAGTCTGGTCTCCACTGTGGCCCTGGCTCCGGCCTGGCTCCCACGGCACAGCC
CGGGGCACCGTCCATGGCAGGCACTGTGGCCCCAGGAGGGGTGAGCGGCCCTTCCCCAGCCCAGCTGGGAGCCCC
AGCCCTCGGTGGGCAGCAGTCAGTCTCCAATAAGCTTCTGGCCTGGAGCGGGGTCTTGGAGTGGCAAGAGAAACC
CAAACCTGCCTCAGTGGATGCCAACCAAGCTGACGCGGTCACTGCCCTGCCAGGTCTACGTGAATCATGGCGA
GAACCTGAAGACGGAGCAGTGGCCCCAGAAGCTGATCATGCAGCTCATCCCCAGCAGCTGCTGACCACCCTGGG
CCCTTTGTTCCGGAACCTCAAGGATGGTCCAGTTCATTTCACCAACAAGGACCTGGAGTCTCTCAAAGGCCTCTA
CCGCATCATGGGCAACGGCTTCGCGGGCTGCGTGCACTTCCCCCACACGGCGCCCTGTGAGGTGCGCGTGCTCAT
GCTCCTGTACTCGTCCAAGAAGAAGATCTTCATGGGCCTCATCCCTACGACCAGAGCGGCTTCGTCAACGGCAT
CCGGCAGGTTCATACCAACCACAAGCAGGTCCAGCAGCAGAAGCTGGAGCAGCAGCAGCGAGGAATGGGGGGACA
GCAGGCACCCCCCAGGGCTGGGGCCCATTCCTGGAGGACCAAGCCAGGCCCTCACAGAATCTGCTCCAGCTCCGCC
CACCAGCAGCCCCAGCCTCAGGGTACCGTAGGGGCCTCTGGGGCCACGGGGCAGCCCCAGCCCCAAGGTACTGCCC
AGCCCCCGCCAGGTGCCCCCTCAAGGCCCTCCTGGAGCAGCTTCTGGCCCACCCCTCCTGGACCCATCCTTCGGC
CCCAGAACCCTGGGGCCAACCCTCAGCTGCGAAGCCTCCTCCTCAACCCACCACCGCCGAGACTGGGGTGCCCC
CACCAGGCCTCCCTCCACCACCTGCCAGTCTGGCCCCGACAACCTTCCCCCTCGGGCTCCACTGCCAGGTAA
GGGGACCCGGGGGAGGGCAGAGGTCTGGACTGAGTGTCCTCCAGCAGCTCCTGGGCTAGAGCACCAGACCAAGTGC
TCCTGGGAAGTAAAGACATAGGATCCAAGAATGAGGGTTCCCCAGCCGGGCTGCAGCCCAGCGTCATGGAGGA
CGACATCCTCATGGATCTCATCTGAATCCCCAACCCCAATAAAGTTCCTTTTAAACACAAAAAAAAAAAAAAAA
AAAA

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FIGURE 5533

MVPGSEGPARGSVVADVVFVIEGTANLGPYFEGLRKHYLLPAIEYFNGGPPAETDFGGDYGGTQYSLVVFNTVD
CAPESYVQCHAPTSSAYEFVTWLDGIKFMGGGGESCSLIAEGLSTALQLFDDFKKMREQIGQTHRVCLLICNSPP
YLLPAVESTTYSGCTTENLVQQIGERGIHFSIVSPRKLPA LRLLFEKAAPPALLEPLQPPTDVSQDPRHMLVRG
LVLPGGGGSGALGPLQSKQPVPLPPAAPSGATLSAAPQQPLPPVPPQYQVPGNLSAAQVAAQNAVEAAKNQKAGLG
PRFSPITPLQQAAPGVGPPFSQAPAPQLPPGPPGAPKPPPASQPSLVSTVAPGSGGLAPTAQPGAPSMAGTVAPGG
VSGPSPAQLGAPALGGQQSVSNKLLAWSGVLEWQEKPKPASVDANTKLTRSLPCQVYVNHGENLKTEQWPQKLIM
QLIPQQLLTTLGPLFRNSRMVQFHFTNKDLES LKGLYRIMGNGFAGCVHFPHTAPCEVRVLMMLYSSKKKIFMGL
IPYDQSGFVNGIRQVITNHKQVQQQKLEQQQQRGMGGQQAPPRAGAHSGGPSQALTESAPAPPTAAPASGYRRGLW
GHGAAPAPRYCPAPARCPSPRSWSSFWPTPSWTHPSAPEPWGQPSAAKPPFQPTTAADWGAPTPGLPPPPAQSWP
AQLPPRAPLPFGKGTIRGRAEVWTECPSSSWARAPRPSAPGK

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FIGURE 5534

GGCACGAGGGCCCTCTGGCGGCTCCGGACCACAGGCCGAGTTACTCTGATTACCGCCATGCTCCAAGACCCGCAC
TGACAGTCCCCACGTGAGGGACCGCGGTGGGAGTCCTAAATGGGGGAGGAGGGGACGGGCGGCACGTGTGCATCTG
CTGTGCCCTCGCGGCCCTCCAGCGGGGTCCCCCTATTCTGCAGGAGCAGTCGCGGCGGCGCCCCGCCCGTCAGCAG
CTCCCGTTCTCTGTTCATCGGTTCCCTCAATGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCT
GCGAGGACCGAGAACACGACTGTGGTGTGGAAAAGCTTCCATGACAGCATACCCTCATTGTTCTGTTCATCTGAG
GTGGGCATCTCTGAGCTGAGGCTGGAGAGACTACTCCAAATGGTGTGGAGCCATGGTCCCTTCTTGTGGGACTT
GAAGAACTGACCAATATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGGCCAGTTATTGCCTCATCGACAGC
TTCTGGGGGACTCGGAGCTCATCGGGGACCTGACCCAGTGTGTGGACTGCGTGATTCCCTCCAGAGGGGTCCCTC
TTGCAGGAAGCCCTCTCCGGGTTTCGCTGAGGCCGCGGGGCACGACCTTCGTTCAGTCTGGTGGTGTCCGGCCGGGTG
GTGGCAGCAACAGAGGGTTGGTGGCGGCTGGGGACGCCCAGAGCCGTGCTGCTCCCTGGCTGGTGGGGTCCCTG
CCGCCGAGACCGCTCGCGACTACCCGGTGTACCTGCCGCACGGGAGCCCCACGGTCCCACACCGGCTCCTGACC
CTGACTCTGCTGCCGAGCCTGGAGCTGTGTCTACTCTGCGGGCCGAGCCCACCCCTCAGCCAGTTGTATCCACAG
CTTCTGGAGCGCTGGTGGCAGCCACTGCTGGACCCGTTGCGGGCCTGCTGCGCGTTGGGACCCCGGGCGCTGCC
AGTGGCTTCCCCCTTCACACAGACATCCTCGGGCTGCTGCTCCTCCACCTGGAAGTGAAGCGCTGCCTCTTCACC
GTGGAGCCCTTGGGGGATAAAGAGCCTTCACCAGAACAGCGCCGGCGCCTCCTCCGAACTTCTATACCCTGGTC
ACCTCCACGCACTTCCCACAGAGCCAGGGCCACCAGAGAAGACAGAAGATGAGGTCTACCAGGCCAGCTGCCC
AGAGCTTGCTACCTGGTGTGGGGACTGAGGAACCAGGCACAGGAGTGCCTGCTGGTGGCCTTGACAGCTGGGGCTT
CGGCGGCTGCTGCTGCTGCTGCTCCTCCAGAGTCCCACCCATGGGCTGCGAAGCCTGGCCACCCACACTCTGCAT
GCCCTCACCCCACTTCTTTGACTACCTAGCAGTGGGTGATGGACACAGACATGGGGCTGTTAGCGTCTCTCTGTT
TATTGCTCACAATAATACACAGCCCCCTGGATGGGGAGGGGGTAGGAGGGGCTACAACAGGGTGGGGTGGGAGGG
GAGGAGACATCCACTTCCCTGGCCCCCTCTCCCTCTGTGCTTGGGGGGGAAAGGGAGGGAGGGGGACTCCCCCTA
ACCCCCAGAATGTAAACAGCAGCAGATGAACAAAAATAAAATACAAAAGGCCGAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 5535

MGEEGTGGTVHLLCLAASSGVPLFCRSSRGGAPARQQLPFSVIGSLNGVHMFQONLEVQLSSARTENTTVVWKSF
HDSITLIVLSSEVGISELRRLERLLQMVFAMVLLVGLLELTNIRNVERLKKDLRASYCLIDSFLGDSELIGDLTQ
CVDCVIPPEGSLLEALSFGFAEAAGTTFVSLVVSGRVVAATEGWWRLGTPEAVLLPWLVGSLPPQTARDYPVYLP
HGSPTVPHRLTLTLPSLELCLLCGPSPPLSQLYPQLLERWWQPLLDPLRACLPLGPRALPSGFPLHTDIILGLL
LLHLELKRCLFTVEPLGDKEPSPEQRRRLRNFTLVTSTHFPEPEGPPEKTEDEVYQQLPRACYLVLGTEEPG
TGVRLVALQLGLRRLLLLLSPQSPTHGLRSLATHTLHALTPLL

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FIGURE 5536

CGGCTCAGAGCTCCGGACCGCGGGCGGAGGGGAGGGGCGAGGGGGCGGTGCCACGGCCTGCCAGCCCCGCCCCGCG
CCCCGCCAGCCAGCCCTCCCCGCGGGCGGCTCGGCTCCTTGCGCGTGCCTGGGGTCCCTTCCGCCCCGGTCCCCGCT
TGCCAGCCCCCGCTGCTCTGTGCCCTGTCCGGCCAGGCCTGGAGCCGACACCACCGCCATCATGCCGGCCGTGTC
CAAGGGCGATGGGATGCGGGGGCTCGCGGTGTTTCATCTCCGACATCCGGAACGTGTAAGAGCAAAGAGGCGGAAAT
TAAGAGAATCAACAAGGAACTGGCCAACATCCGCTCCAAGTTCAAAGGAGACAAAGCCTTGATGGCTACAGTAA
GAAAAAATATGTGTGTAAACTGCTTTTCATCTTCTGCTTGCCCATGACATTGACTTTGGGCACATGGAGGCTGT
GAATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAGGTTACCTGTTTCTGCTGGTGAAGTTCGAA
CTCGGAGCTGATCCGCTCATCAACAACGCCATCAAGAATGACCTGGCCAGCCGCAACCCACCTTCATGTGCCCT
GGCCCTGCACTGCATCGCCAACGTGGGCAGCCGGGAGATGGGCGAGGCCTTTGCCGCTGACATCCCCCGCATCCT
GGTGGCCGGGGACAGCATGGACAGTGTCAAGCAGAGTGGCGGCCCTGTGCCCTCCTTCGACTGTACAAGGCCTCGCC
TGACCTGGTGGCCATGGGCGAGTGGACGGCGCGTGTGGTACACCTGCTCAATGACCAGCACATGGGTGTGGTAC
GGCCGCCGTGAGCCTCATCACTGTCTCTGCAAGAAGAACCAGATGACTTCAAGACGTGCGTCTCTCTGGCTGT
GTCGCGCCTGAGCCGGATCGTCTCCTCTGCCCTCCACCGACCTCCAGGACTACACCTACTACTTCGTCCCAGCACC
CTGGCTCTCGGTGAAGCTCCTGCGGCTGCTGCAGTGCTACCCGCCCTCCAGAGGATGCGGCTGTGAAGGGGCGGCT
GGTGGAAATGTCTGGAGACTGTGCTCAACAAGGCCAGGAGCCCCCAAATCCAAGAAGGTGCAGCATTCCAACGC
CAAGAACGCCATCCTCTTCGAGACCATCAGCCTCATATCCACTATGACAGTGAGCCCAACCTCCTGGTTCGGGC
CTGCAACCAGCTGGGCCAGTTCTTGCAGCACCAGGAGACCAACCTGCGCTACCTGGCCCTGGAGAGCATGTGCAC
GCTGGCCAGCTCCGAGTTCTCCCATGAAGCCGTCAAGACGCACATTGACACCGTCATCAATGCCCTCAAGACGGA
GCGGGACGTGAGCGTGGCGGAGCGGGCGGCTGACCTCCTCTACGCCATGTGTGACCGGAGCAATGCCAAGCAGAT
CGTGTGAGAGATGCTGCGGTACCTGGAGACGGCAGACTACGCCATCCGCGAGGAGATCGTCTGAAGGTGGCCAT
CCTGGCCGAGAAGTACGCCGTGGACTACAGCTGGTACGTGGACACCATCCTCAACCTCATCCGATTGCGGGCGA
CTACGTGAGTGAGGAGGTGTGGTACCGTGTGCTACAGATCGTCACCAACCGTGATGACGTCCAGGGCTATGCCGC
CAAGACCGTCTTTGAGGCGCTCCAGGCCCTGCCTGTACAGAGAACATGGTGAAGGTTGGCGGCTACATCCTTGG
GGAGTTTGGGAACCTGATTGCTGGGGACCCCCGCTCCAGCCCCCAGTGCAGTTCTCCCTGCTCCACTCCAAGTT
CCATCTGTGCAGCGTGGCCACGCGGGCGCTGCTGTGTCCACCTACATCAAGTTCATCAACCTCTTCCCCGAGAC
CAAGGCCACCATCCAGGCGTCCCTGCGGGCGGCTCCAGCTGCGCAATGCTGACGTGGAGCTGCAGCAGCAGC
CGTGAGTACCTCACCTCAGCTCAGTGGCCAGCACAGCTGCTGGCCACGGTGTGAGGAGATGCCGCCCTT
CCCCGAGCGGAGTCCGTCCATCCTGGCCAAGCTGAACGCAAGAAGGGGCCAGGGGCCGCGCAGCGCCCTGGACGA
TGGCCGGAGGGACCCAGCAGCAACGACATCAACGGGGGCATGGAGCCACCCCGAGCACTGTGTGACGCCCCC
GCCCTCCGCCGACCTCCTGGGGCTGCGGGCAGCCCTCCCCGGCAGCACCCCGGCTTCTGCAGGAGAGGAA
CCTTCTGGTGGACGTCTTCGATGGCCCGGCCAGCCAGCCTGGGGGCCACCCCGAGGAGGCCCTTCTCAG
CGAGCTGGAGCCGCTGCCCCGAGAGCCCCATGGCTTTGCTGGCTGACCCAGCTCCAGCTGCTGACCCAGGTCC
TGAGGACATCGGCCCTCCCATTCGGAAGCCGATGAGTTGCTGAATAAGTTTGTGTGAAGAACAACGGGGTCTT
GTTGAGAAACAGCTGCTGCAGATCGGAGTCAAGTCAGAGTTCCGACAGAACCCTGGGCCGATGTATCTCTTCTA
TGGCAACAAGACCTCGGTGCAGTTCCAGAATTTCTACCCACTGTGGTTACCCGGGAGACCTCCAGACTCAGCT
GGCTGTGCAGACCAAGCGCGTGGCGGCGCAGGTGGACGGCGGCGCAGGTGCAGCAGGTGCTCAATATCGAGTG
CCTGCGGGACTTCTGACGCCCCCGCTGCTGTCCGTGCGCTTCCGGTACGGTGGCGCCCCCAGGCCCTCACCT
GAAGCTCCAGTGACCATCAACAAGTTCTTCCAGCCCACCGAGATGGCGGCCAGGATTTCTTCCAGCGCTGGAA
GCAGCTGAGCCTCCCTCAACAGGAGGCGCAGAAAATCTTCAAAGCCAACCACCCCATGGACGCAGAAGTTACTAA
GGCCAAGCTTCTGGGGTTTGGCTCTGCTCTCCTGGACAATGTGGACCCCAACCTGAGAACTTCGTGGGGGCGGG
GATCATCCAGACTAAAGCCCTGCAGGTGGGCTGTCTGCTTCGGCTGGAGCCCAATGCCAGGCCCAGATGTACCG
GCTGACCTGCGCACAGCAAGGAGCCCGTCTCCCGTCACCTGTGTGAGCTGCTGGCACAGCAGTTCTGAGCCCT
GGACTCTGCCCCGGGGGATGTGGCCGGCACTGGGCAGCCCTTGGACTGAGGCAGTTTTGGTGGATGGGGACCT
CCACTGGTGACAGAGAAGACACCAGGGTTTGGGGGATGCCTGGGACTTTCCTCCGGCCTTTTGTATTTTATTTT
TGTTTCATCTGCTGCTGTTTACATTCTGGGGGGTTAGGGGGAGTCCCCCTCCCTCCCTTTCCCCCAGACAGA
GGGGAGAGGGGCCAGGGAAGTGGATGTCTCCTCCCTCCACCCACCCCTGTTGTAGCCCTCCTACCCCTCCC
CATCCAGGGCTGTGTATTATTGTGAGCGAATAAACAGAGAGACGCTAA

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FIGURE 5537

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTACAAAACTTATGTGACCCCG
CGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCAACGTCCTGCTGCGGCGGCTGCTC
CGCATTGGGGTGCTGGATGAGGGCAAGACGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAG
AGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTGGCGTACTGATCCGCCAG
CGCCGTGTCAGGGTCCGCAATCAGGTGGCGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCGCATC
GACTTGTCTCTGCGCTCTCCCTATGGGGTGGCCGCCCCGGCCGCGTGAAGAGGAAGAACGCCAAGAAGGGCCAGG
GTGAGGGTGGGGCTGGAGACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGT
TTTCCTGCCAAATAAACAGGATCAGCACTTTAC

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FIGURE 5538

MPVARSWVCHKTYVTPRRPF EKSRLDQELKLIGNVLLRRLLRIGVLDEGKTKLDYILGLKIEDFLERRLQTQVFK
LGLAKSIHHAGVLIQRVRVRNQNIPSFIVRLDSQKRIDLRLSPYGVAAAPAA

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FIGURE 5539

GTGGGCAGCCGAGGCCGCGAACTGCATC**ATG**GAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCC
GCCTCTTGAAGAAGTGTCTGTGGCCAGGCGGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGA
TTACTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTA
CCGCAACTCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGCTGGACGTCGGCTCGGGCACCGGCAT
CCTCTGCATGTTTGCTGCCAAGGCCGGGGCCCGCAAGGTCATCGGGATCGTGTGTTCCAGTATCTCTGATTATGC
GGTGAAGATCGTCAAAGCCAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCT
CCCAGTGGAGAAGGTGGCATCATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACC
GTGCTCTATGCCCCGGGACAAGTGTGGCGCCCGATGGCCTCATCTTCCCAGACCGGGCCACGCTGTATGTGACGGC
CATCGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGCA
CAAAGATGTGGCCATTAAGGAGCCCCTAGTGGATGTCGTGGACCCCAAACAGCTGGTCACCAACGCCTGCCTCAT
AAAGGAGGTGGACATCTATACCGTCAAGGTGGAAGACCTGACCTTCACCTCCCCGTTCTGCCTGCAAGTGAAGCG
GAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGGACCGGCTTCTC
CACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTCTACATGGAGGACTACCTGACCGTGAAGAC
GGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGA
CCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGTCTCCACCGACTACCGGATGCGCT**TGAG**GGCCCCGGCTCTCCC
GCCCTGCACGAGCCCAGGGCTGAGCGTTCTAGGCGGTTTCGGGGCTCCCCCTTCTCTCCCTCCCTCCCGCAG
AAGGGGGTTTTAGGGCCCTGGGCTGGGGGGATGGGGAGGGCACATCGTGAATGTGTTTTTCATAACTTATGTTTT
TATATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

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FIGURE 5540

MENFVATLANGMSLQPPLEEVSCGQAESSEKPNADMTSKDYYFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRH
LFDKVVLDVGSGTGILCMFAAKAGARKVIGIVCSSISDYAVKIVKANKLDHVVTIIKGKVEEVELPVEKVASS
ASGWATASSTSPCSTPCSMPTSVAPDGLIFPDRTLYVTAIEDRQYKDYKIHWWENVYGFDMSCIKDVAIKEPL
VDVVDPKQLVTNACLIKEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTH
WKQTVFYMEDYLTVKTGEEIFGTIGMRPNAKNNRDLDFTLDFKQQLCELSCTDYMR

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FIGURE 5541

AAGTAAGTATCCCCACTTTTCAGGGTAGCATCCTCTTTCCCTAGTTATTTTCAGTGCAGAATCGATTACAGTGTAAG
CCTCTACCTCCTGCACTTACCCCAATGTAGACCCCTTCCACAGTCCCCCTACAGAAGATCTCCCAAAACATTTTC
CAACACAGAACTTCCATTCAATTCCCTCCGACTGCCCGCCTCCCTCCTCCAGGACAGAGCAGCCCCAGGTTTC
GAGACTGAACTACCCCATCTACGGAGTCCACCCCTCCCTCTCTAGAACCCCTCAGTGTAGACGCCTCCTCTTT
TCCTCTTTCCCTACTTTTTCTAGTTTTTCTGCAGCCGACCTCCAGCGTCGGCCACTGTAGCTCCTTCCTTGC
TCCACTTTCCCCAGAGTACACAGCCTGCCTTTCCACTCTCCGTGCAGACCCATCCTCTTTCCCGCTCCTCGCTCT
CGGACGCCACCAACGCTCTCCCGGGCTCTTCCGCGTTACCTACGATGGAAGGTCGGGGCGTGCGGGCAGCTGGAA
CCCACCCCTGTCTTGGAGCTCCGGGTAGCTCTCAAACCTCGAGGCTGCGCACCCCTTTCCCGTCAGCTGAGCTCT
AGAGCGCTGGGGCTTTCTTTTTGATCGACTTCTTGAATAAAACCAACTTTATCATTCTTTGGGTAAACAGACCCA
AAAGCCGATGGGACGGCCCGCTGGGCTGTTCCCGCCCTATGCCCTTTTTTGGGTTTCCGGCCAGAGGCATGCTG
GGAGCGTCACATGCAAATTGAGCGTGCACCCAGCGTTCCGCCCTTTCTACGCTGGGCCGGTTATCGACCCGGCCC
AGTGCAGGCGCGGGAAAGTTGAACTAATAAAGTTTGTACGAGTTCAGTGGAGGAGACCGCAAGTTGAGTGGAG
GAGGCGCGGTGGGGCCCCGGACAGGTGCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCT
GAGGGTCCTAGCTGCCTTCCTTAGGCGTGGTGAAGCTGCCGGGTCTCCTGTTCCAACCTCCACCTAGAAGCCCTGC
CCAAGAAGAGCCAACAGACTTCCTGAGCCGCTTCGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCC
CTCTGAGTCCCCCTCGGCCTTGCTCTCTGCCCATCCGCCCTGCTATGGTTTAGAGCCTGGCCAGCTACTCCAGA
CTTCTATGCTTTGGTGGCCAGCGCTGGAACAGCTGGTCCAAGAGCAGCTGAAATCTCCGCCAGCCAGAATT
ACAGGGTCCCCCATCGACAGAGAAGGAAGCCATACTGCGGAGGCTGGTGGCCCTGCTGGAGGAGGAGGCAGAAGT
CATTAAACCAGAAGCTGGCCTCGGACCCCGCCCTGCGCAGCAAGCTGGTCCGCCTGTCTCCGACTCTTTCGCCCG
CCTGGTGGAGCTGTTCTGTAGCCGGGATGACAGCTCTCGCCAAGCCGAGCATGCCCCGGGCCCCCGCCTCCTTC
CCCGGAGCCCCCTGGCCCGCCTGGCCCTAGCCATGGAGCTGAGCCGGCGCTGGCCGGGCTGGGGGGCACCTGGC
CGGACTCAGCGTGGAGCAAGTGCACAGCTTCACGCCCTGGATCCAGGCCACGGGGGCTGGGAGGGCATCCTGGC
TGTTTCACCCGTGGACTTGAACCTGCCATTGGACTGA

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FIGURE 5542

GGTTCCAGCTGCCCGCACGCCCCGACCTTCCATCGTAGGCCGGACC**ATCG**GGAACCCCAAAGCCACGGATCCTGCC
CTGGCTGGTGTGCGAGCTGGACCTGGGGCAACTGGAGGGCGTGGCCTGGGTGAACAAGAGCCGCACGCGCTTCCG
CATCCCTTGGAAGCACGGCCTACGGCAGGATGCACAGCAGGAGGATTTCCGAATCTTCCAGGCCTGGGCGGAGGC
CACTGGTGCATATGTTCCCGGGAGGGATAAGCCAGACCTGCCAACCTGGAAGAGGAATTTCCGCTCTGCCCTCAA
CCGCAAAGAAGGGTTGCGTTTAGCAGAGGACCGGAGCAAGGACCCTCACGACCCACATAAAATCTACGAGTTTGT
GAACTCAGGAGTTGGGGACTTTTCCAGCCAGACACCTCTCCGGACACCAATGGTGGAGGCAGTACTTCTGATAC
CCAGGAAGACATTCTGGATGAGTTACTGGGTAACATGGTGTGGCCCCACTCCCAGATCCGGGACCCCCAAGCCT
GGCTGTAGCCCCCTGAGCCCTGCCCTCAGCCCCTGCGGAGCCCCAGCTTGGACAATCCCACTCCCTTCCCAAACCT
GGGGCCCTCTGAGAACCCACTGAAGCGCTGTTGGTGCCGGGGGAAGAGTGGGAGTTCGAGGTGACAGCCTTCTA
CCGGGGCCGCCAAGTCTTCCAGCAGACCATCTCCTGCCCGGAGGGCCCTGCGGCTGGTGGGGTCCGAAGTGGGAGA
CAGGACGCTGCCCTGGATGGCCAGTCACACTGCCAGACCCTGGCATGTCCCTGACAGACAGGGGAGTGATGAGCTA
CGTGAGGCATGTGCTGAGCTGCCCTGGGTGGGGGACTGGCTCTCTGGCGGGCCGGGCAGTGGCTCTGGGCCCAGCG
GCTGGGGCACTGCCACACATACTGGGCAGTGAGCGAGGAGCTGCTCCCCAACAGCGGGCATGGGCCTGATGGCGA
GGTCCCCAAGGACAAGGAAGGAGGCGTGTGTTGACCTGGGGCCCTTCATTGTAGATCTGATTACCTTCACGGAAGG
AAGCGGACGCTCACCACGCTATGCCCTCTGTTCTGTGTGGGGGAGTCATGGCCCCAGGACCAGCCGTGGACCAA
GAGGCTCGTGATGGTCAAGGTTGTGCCACGTGCCCTCAGGGCCTTGGTAGAAATGGCCCGGTAGGGGGTGCCTC
CTCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCTCACCTCCGACCAGTACAAGGC
CTACCTGCAGGACTTGGTGGAGGGCATGGATTTCCAGGGCCCTGGGGAGAGCT**TGAG**CCCTCGCTCCTCATGGTGT
GCCTCCAACCCCCCTGTTCCCCACCACCTCAACCAATAAACTGGTTCCTGCTATGAA

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FIGURE 5543

MGTPKPRILPWLVSQDLGQLEGVAWVNKSRTFRIPWKHGLRQDAQQEDFGIFQAWAEATGAYVPGRDKPDLPT
WKRNFRSALNRKEGLRLAEDRSKDPHDPHKIYEFVNSGVGDFSQPDTSPTDNGGGSTSDTQEDILDELLGNMVL
PLPDGPPSLAVAPEPCPQPLRSPSLDNPTFPNLGPSENPLKRLLVPGEEWEFEVTA FYRGRQVFQQTISCPEG
LRLVGSEVGDRITLPGWPVTLPDPGMSLTDRGVMSYVRHVLSCLGGLALWRAGQWLWAQRLGHCHTYWAVSEELL
PNSGHGPDGEVPKDKEGGVFDLGPFIVDLITFTEGSGRSPRYALWFCVGESWPQDQPWTKRLVMVKVVPTCLRAL
VEMARVGGASLENTVDLHISNSHPLSLTSDQYKAYLQDLVEGMDFFQGPGES

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FIGURE 5544A

CTGGGGTGTCTGTGCTGGGTCCAGCGCCACCCAAAGCACAGGGTGGAGTGGGAGGAGGTGGAGGAGAGGAGGGGT
GCCAGAGGGGATGCTGAGGGGAGATAGTGTGGGGCCCTTGAGGTCTTCTATGCTATCCTCTACTTCCATCCTTTCT
CCCGGGACCTCCACTCCAACTCTCCCCCTGGACCCCAAGGTGACCATGGAGGAAGAAGATGAGTCTCGAGGGA
AGACAGAGGAGTCGGGGGAGGATCGGGGCGATGGTCCGCCAGACAGAGACCCACGCTTTCTCCTTCTGCCTTTA
TCCTGCGAGCCATCCAGCAGGCTGTGGGAAGCTCCCTGCAGGGGGACCTGCCCAATGATAAAGATGGCTCTCGGT
GTCATGGCCTTCGATGGCGGCGCTGCCGGAGTCCACGGTCAGAGCCCCGTTCCAGGAATCAGGGGGCACTGACA
CGGCTACTGTGTTGGACATGGCCACGGACAGCTTCTCGCAGGGCTGGTGAGTGTCTGGATCCCCCGGATACCT
GGGTTCACAGCCGCTGGACCTGCCGCTGGCGAAAGTGAGGACATGCTGGAGCTGGTGGCTGAGGTCCGAATCG
GGGACAGAGATCCCATCCCTCTGCCTGTGCCAGCCTGCTGCCCGCTCTCAGGGCCTGGAGGACGGGCAAAACGG
TTTCTCCACAGTCGAACTCCTCTAGGCCCACCTGTGCCCGCTACCTACCTTGGGCACGGGAGACGGGGGCCCTG
CCCCACCCCTGCCCTCTCTGCATCCTCCTCCCTTCCCTTCTCCTCATCTTCTCCTCCCTTCCCTTCCCT
CACCCACCCGCCCCCTGCACCCCAAGCCCCACCTGCCCGGATTTCGATATCTATGACCCCTTCCACCCACCCG
ACGAGGCCTACTCTCCACCGCCTGCTCCGGAGCAAAAGTACGACCCCTTTTGAGCCACCGGCTCCAACCCACGCT
CATCAGCGGGGACCCCTCACCTGAGGAGGAAGAGGAGGAGGAAGAGGAAGAAGAGGAAGAGGAAGACGAGG
AGGAGGAGGAAGGCCTGTCCAGAGCATCAGCCGCATCTCGGAGACCTGGCGGGCATCTACGATGACAACAGCC
TGAGCCAGGACTTCCAGGTGACGAGAGCCCCCGCCCGGACGCGCAGCCACACAGCCGACTCCCGCCCCTGAA
CGCCGCCCAAGGTGGACTCCACCCGGGCTGATGGAGCCATGCGCCGGCGGGTCTTCGTGGTGGGGACCGAGGCAG
AGGCTTGTGCGGAAGGCAAGGTCTCGGTGGAGGTGGTGACCGCTGGTGGAGCCGCCCTCCCGCCGCCCTGTGC
CGCCCGGCGACTCGGAGATCGAGGAAGGGGAGATCGTCCAGCCGGAGGAGGAGCCAGGCTGGCGCTGTCCCTCT
TCCGCCCGGCGGCGCGGCGCGCCCGGCTACACCGGCGGCTCGGCCACCCCAAGGCCAGCCCTTCTCAGC
CTCCGCTCCGCGGGCCCCGAGGGGGACGACTTCTTGTCCCTGCATGCGGAGTCGGACGGCGAGGGCGCCCTGC
AGGTGGACCTAGGGGAGCCGGCTCCCGCGCCGCGCCGCGGCTCGCGTGGGGCGGCTGGACCTGCGCCGCA
AGATCCTGACCCAACGGCGGGAGCGCTACCGCCAGCGCTCGCCCTCCCGGCGCCCGCGCCCGCCCGGCGCCG
CTGCTGGTCCGCCCACGCGCAAGAAGTCCAGGCGGGAACGCAAGCGCAGCGGCGAGGCCAAGGAGGCCGCTCGT
CCTCGTGGGCACCCAGCCAGCGCGCGCGCGCGCGGCTCGCCCTGGGACTCCAAGAAGCACCCTCGCGGGACC
GCAAGCCCCGGCTCCACGCTCGTCCGCGCGCGCGCGCTCCGCTCCGCTCCGCTCCGCTCCACCCGCC
GCCGCTCGCGCAGCACCGCCGCGCGGGGCGCGGCTCGCGTCCGCGTCCGCGTCCGCTCCGCTCCACCCGCC
GGCGCTCCGCTCCCGCCCCCGGCCACTTCTCATCGTCTCGTCTCGAGGCGCGAGCGGCACCGCGGAAACACC
GGGACGGTGGCGGCGAGCAAGAAGAAGAAGAAGCGGTGCGGTTCCGGGTGAGAAGCGGTCTGGGATGGCAGCG
AGAAGGCCCCGCGCGCCCGCGCGCCCTTGCTCCACCTCGTGTGGTGACCGCGACAGCCCGCGCGGGGG
CCGTGCCACCTCCATCCAGGACCTCACGACCACGACCTTTCGCCATCAAGCGGACCATCAGGTGGGCCGGC
TTGACAAGTCCGACCCCGAGGACCTCTCCTGCTCCGGCTCCTACCTAAGCGGAGGTCTGTACGACTCCG
AGGGACTGAGCGGCGAGGAGCGGGGCGGCAAGAGCAGCCAGAAGGATCGGCGCGCTCGGGGCGGCTCCTCCT
CCTCCTTCCCGGGAAGGGGTCTCGTGGAAAGGCGCTGGACGGGGGTGACCGGATCGGGACAGGGACAGAG
ATAGGGACAGGGACAGGTTCATCCAAGAAGGCCCGGCCCCCAAGGAGTCGGCGCTTCTCAGGGCCCCCGCAA
AGCCACAGTCAGCAGCGGCTCAGGCTCTTATCCTCGTCTGCTCTTCTTCCGGAAGGTGAAGCTGCAGT
CCAAGGTGGCGGTGTGATCCGCGAGGGTGTAGCAGCACCACCCGCGCAAGGATGCCGCTCAGCCGGCCTGG
GCTCCATTGGCGTCAAATTCAGCCGTGACCGCGAGAGTGCCTCCCCCTTCTCAAACCTGACGAGCGGGCCCCCA
CTGAGATGGCCAAAGCAGCTCCGGGCGACCAAGCCAAAAAGACCAAGGTCAAGGCCAAGGCAGGGGCCAAGA
AAACCAAGGGGACCAAGGGAAGACCAAGCCATCCAAGACCAGGAAAAAGGTCCGAGTGGAGGTGGCAGCGGGG
GCAGTGGTGGCCAGGTGTGCTGAAGAAGTCCAAGGCGGATAGCTGCAGCCAGGCGGCAGGCACCAAGGGGGCGG
AGGAGACTTCTGGTCCGGGGAGGAGCGGGCAGCCAAGGTTCTAGCACC CGCCCCCAAGGCAGCCCCACAC
CCCCTGCCCTACTCCGACTCGCAGACCGTGGACAGCAGCTGCAAGACACCTGAGGTCTCCTTCTGCCCCGAGG
AGGCCACTGAGGAGGCTGGGGTCCGAGGTGGGGCGGAGGAGGAGGAGGAAGAAGAAGAGGAGGAGGAAGAGG
AAGAGGAGGAGGAGCAGCAGCCTGCTACCACCACGGCCACCAGCACTGCTGCAGCCGCCCAAGCACTGCCCA
GCGCGGGGTCCACAGCCGTGACTCGGGGGCGGAGGACGGGCCAGCTTCCCGTGTCTCCAGCTGCCACGTTGC
CCCCGCCATGCCCTGGAATCTGCCAGCTGGTGTGGACTGCACCACCAGCGCGTCTGGCCTTGACTGCACTTC
TCTTCAAGATGGAAGAAGCCAACCTGGCGAGCCGAGCGAAGGCCAGGAGCTGATCCAGGCCACCAACCAGATCC

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FIGURE 5544B

TCAGCCACAGAAAGCCACCCTCAAGTCTGGGGATGACCCCAGCTCCTGTGCCACCTCTTTGGGTCTGCCCCCTG
GCCCCCTCCAGCTACCTGCTTCCTGGCAGCCTCCCTCTGGGGGGCTGCGGTTTCGACCCCCCACCACCGGGC
TGGCTGCCACGTCTGACAAGAGAGAGGGCAGCAGCAGCTCTGAGGGCCGTGGGGACACAGATAAGTATCTGAAGA
AGCTGCACACGCAGGAGCGGGCGGTGGAGGAGGTGAAGCTGGCCATCAAGCCATACTATCAGAAGAAGGACATCA
CCAAGGAGGAGTACAAGGACATCCTGAGGAAGGCCGTCCACAAGATCTGCCACAGCAAAGTGGGGAAATCAACC
CAGTGAAGGTGAGCAACCTGGTGCGGGCCTACGTCCAGCGCTACCGCTACTTCCGCAAGCACGGTCGCAAGCCAG
GGGACCCCCCAGGGCCCCCACGGCCGCCCAAGGAGCCAGGGCCCCCAGACAAGGGTGGCCCGGGCCTGCCCCCTGC
CCCCTCTCTGAGAGCCCTGGCCAGCTCTTCGCCCCCTCACCTCTTTGAAACTCTGGACGTATTTATGGCTCCACCT
CCCCACCTCCCTCCCCCGTCAGTGGGATGACTGGGGGAGGGTTGCTGCAGGGAAGAGGAGAGCCCCCTGCCCTGC
CCTGCCCCGTGTCCACCTCCCTTGCCCCCAAGCCTGTCCCCAGTGCCCCCTCCCTTCTGTTTGTGCCCCCTCTCCCC
AATTTTATTAAAGATTTTCATGAAACATT

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FIGURE 5545

MSILYFHPFSRDLHSKLSPLDPQVTMEEEDES RGKTEESGEDRGDGPDRDPTLSPSAFILRAIQQAVGSSLOGD
LPNDKDGS RCHGLRWRRCSRSEPRSQESGGTDATVLDMATDSFLAGLVSVLDPPDTWVPSRLDLRPGESDM
LELVAEVRIGDRDPIPLPVPSLLPRLRAWRTGKT VSPQSNSSRPTCARHLTLGTGDGGPAPPPAPSSASSSPSPS
PSSSSPSPPPPPPPAPPPAPPRFDIYDPFHPTDEAYSPPPAPEQKYDPFEPTGSPNPSSSAGTPSEEEEEEEEE
EEEEEEEEEEEEEEGLSQSISRISSETLAGIYDDNSLSQDFPGDESPRPDAQPTQPTPAPGTPPQVDSTRADGAMRR
RVFVVGTEAEACREGKVSVEVVTAGGAALPPPLLPPGDSEIEEGEIVQPEEEPRLALS LFRPGGRAARPTPAASA
TPTAQPLPQPPAPRAPEGDDFLSLHAESDGEALQVDLGEPAPAPPAADSRWGGLDLRRKILTQRRERYRQRSPS
PAPAPAPAAAAGPPTRKKSRRERKRSGEAKAASSSSSGTQPAPPAPASPWDSKKHRSRDRKPGSHASSSARRRSR
SRSRSRSTRRRSRSTDRRRGGSRRRSRSREKRRRRRRRSASPPPATSSSSSSRRERHRGKHRDGGGSKKKKKRSRSR
GEKRS GDGSEKAPAPAPPPSGSTSCGDRDSRRRGAVPPSIQDLTDHDLFAIKRTITVGRLDKSDPRGPSPAPASS
PKREVLYDSEGLSGEERGKSSQKDRRRSGAASSSSSSREKGSRRKALDGGDRDRDRDRDRDRDRSSKKARPKE
SAPSSGPPPKPPVSSGSGSSSSSSSCSSRKVKLQSKVAVLIREGVSS TPAKDAASAGLGSIGVKFSRDRESRSP
FLKPDERAPTEMAKAAPGSTKPKKTKVKAKAGAKKTKGTKGKTKPSKTRKKVRSGGGSGGSGGQVSLKSKADSC
SQAAGTKGAEETSWSGEERA AKVPSTPPPKAAPPPALTPDSQTVDSSCKTPEVSFLPEEATEEAGVRGGAE EEE
EEEEEEEEEEEEEEQQPATTATSTAAAAPSTAPSAGSTAGDGAEDGPASRVSQLPTLPPMPWNLPAGVDCTT
SGVLALTALLFKMEEANLASRAKAQELIQATNQILSHRKPPSSLGMPAPVPTSLGLPPGPSSYLLPGSLPLGGC
GSTPPTPTGLAATSDKREGSSSSEGRGDTDKYLKKLHTQERAVEEVKLAIKPYYQKKDITKEEYKDILRKAVHKI
CHSKSGEINPVKVSNLVRAYVQRYRYFRKHGRKPGDPPGPPRPPKEPGPPDKGGPGLPLPL

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FIGURE 5546

GGCACGAGGAAGCGACCGAGGGACTGGGAGTCGTTAGTGAGAGTTTCACTCTTGTTGCCTAGGCTGGAGTGCAAT
GGTGCGATCTTGGCTCATCACGACCTTCGCCTCCCAGGTTCAAGTGATTGTCCATTTACAGCCTCCCGAGTAGCT
GGGATTACAGGATGACGCGGCATGGCAAGAACTGCACCGCAGGGGCGGTCTACACCTACCACGAGAAGAAGAAGG
ACACAGCGGCCTCGGGCTATGGGACCCAGAACATTGACTGAGCCGGGATGCCGTGAAGGACTTCGACTGCTGTT
GTCTCTCCCTGCAGCCTTGCCACGATCCTGTTGTACCCACAGATGGCTACCTGTATGAGCGTGAGGCCATCCTGG
AGTACATTCTGCACCAGAAGAAGGAGATTGCCCCGCAGATGAAGGCCTACGAGAAGCAGCGGGGCACCCGGCGCG
AGGAGCAGAAGGAGCTTCAGCGGGCGGCCTCGCAGGACCATGTGCGGGGCTTCCTGGAGAAGGAGTCGGCTATCG
TGAGCCGGCCCCCTCAACCTTTACAGCCAAGGCCCTCTCGGGCACCAGCCAGATGATGTCCAACCTGGGCCCCA
GTGTGGGTCCTCCAAGTAAGGACAAGGACAAAGTGCTGCCCAGCTTCTGGATCCCGTCGCTGACGCCCCGAAGCCA
AGGCCACCAAGCTGGAGAAGCCGTCCCGCACGGTGACCTGCCCCATGTCAGGGAAGCCCCCTGCGCATGTGCGACC
TGACGCCCCGTGCACTTCACACCGCTAGACAGCTCCGTGGACCGCGTGGGGCTCATCACCCGCAGCGAGCGCTACG
TGTGTCCCGTGACCCGCGACAGCCTGAGCAACGCCACCCCTGCGCTGTGCTGCGGCCCTCTGGGGCTGTGGTCA
CCCTCGAATGCGTGGAGAAGCTGATTGGAAGGACATGGTGGACCCTGTGACTGGAGACAACTCACAGACCGCG
ACATCATCGTGTGCTGCAGCGGGCGGTACCGGCTTCGCGGGCTCCGGAGTGAAGCTGCAAGCGGAGAAATCACGGC
CGGTGATGCAGGCCTGAGTGTGTGCGGGAGACCAAATAAACCGGCTTGGGTGCGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5547

MTRHGKNCTAGAVYTYHEKKKDTAASGYGTQNIRLSRDAVKDFDCCCLSLQPCHDPVVTPDGYL YERE AILEYIL
HQKKEIAROMKAYEKQRGTRREEQKELQRAASQDHVRGFLEKESAIVSRPLNPFTAKALSGTSPDDVQPGPSVGP
PSKDKDKVLPSFWIPSLTPEAKATKLEKPSRTVTCPMMSGKPLRMSDLTPVHFTPLDSSVDRVGLITRSEYVCAV
TRDSLSNATPCAVLRPSGAVVTLECVKELIRKDMVDPVTGDKLTDRDIIVLQRGGTGFAGSGVKLQAEKSRPVMQ
A

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FIGURE 5548

GAAGGATATTAAAGAGCACCTGCAGGAATTTTTTAAGGGGATGCCGGGGGAAGGGCTTGAAGGAGGAACTAAGGA
GGCTTCCAGAAGATTTTGTATTAAACAGCGAGCGCTAGGGAAGGCCACGGGGATACAGAGGGGTAGGAGGAGGATCC
AGAGACCTCCAAGTTGTGGACTCCGGAGGCATCGAGTTCCTTTCCAGTTTTGTCAAGAAATCCCTGAGCGGCAG
ACACCCCTCAAAGTAAAAACGGGAACACAGAGAAGGAAAAAGAAGAACCAAGCGTTTTGAGAAAACAAACAGG
CTGGGCCTAGGGCCTGGGGTGTGCCCTGCAACTGGGGGTGGGGCTGGATGTTCTTGGAGTCAGGGAGCAGCAGC
CTCCACAGGATGTGAGAGAGGAACTGGGGTCTCCAGTCACGGGAGCCAGGAGCCGGCCAGGGCCGAGGCAGGAGGA
AGCGGAGCGAGGCTGAAGGGAACCTTCGTCTCTCAGCATGGGGGTCCCGCGGCTCAGCCCTGGGCGCTGGGGCT
CCTGCTCTTTCTCCTTCTGGGAGCCTGGGCGCAGAAAGCCACCTCTCCCTCCTGTACCACCTTACCGCGGTGTC
CTCGCCTGCCCCGGGGACTCCTGCCTTCTGGGTGTCCGGCTGGCTGGGCCCGCAGCAGTACCTGAGCTACAATAG
CCTGCGGGGCGAGGCGGAGCCCTGTGGAGCTTGGGTCTGGGAAAACAGGTGTCTTGGTATTGGGAGAAAAGAGAC
CACAGATCTGAGGATCAAGGAGAAGCTCTTTCTGGAAGCTTTCAAAGCTTTGGGGGGAAAAGGTCCCTACACTCT
GCAGGGCCTGCTGGGCTGTGAACCTGGGCCCTGACAACACCTCGGTGCCACCGCCAAGTTCGCCCTGAACGGCGA
GGAGTTTATGAATTTTCGACCTCAAGCAGGGCACCTGGGGTGGGGACTGGCCCGAGGCGCTGGCTATCAGTCAGCG
GTGGCAGCAGCAGGACAAGGCGGCCAACAAAGGAGCTCACCTTCTGCTATTCTCCTGCCCCGACCGCTGCGGGGA
GCACCTGGAGAGGGGCGCGGAAACCTGGAGTGGAAGGAGCCCCCTCCATGCGCCTGAAGGCCCGACCCAGCAG
CCCTGGCTTTTCCGTGCTTACCTGCAGCGCCTTCTCCTTCTACCCTCCGGAGCTGCAACTTCGGTTCTGCGGAA
TGGGCTGGCCGCTGGCACCGGCCAGGGTGACTTCGGCCCCAACAGTGACGGATCCTTCCACGCCTCGTCTGCTACT
AACAGTCAAAAGTGGCGATGAGCACCCTACTGCTGCATTGTGCAGCACGCGGGGCTGGCGCAGCCCCCTCAGGGT
GGAGCTGGAATCTCCAGCCAAGTCTCCGTGCTCGTGGTGGGAATCGTCATCGGTGTCTTGTACTACGGCAGC
GGCTGTAGGAGGAGCTCTGTTGTGGAGAAGGATGAGGAGTGGGCTGCCAGCCCCCTGGATCTCCCTTCGTGGAGA
CGACACCGGGGTCTCCTGCCCCACCCAGGGGAGGCCAGGATGCTGATTGAAGGATGTAAATGTGATTCCAGC
CACCGCCTGACCATCCGECATTCCGACTGCTAAAAGCGAATGTAGTCAGGCCCCTTTCATGCTGTGAGACCTCCT
GGAACACTGGCATCTCTGAGCCTCCAGAAGGGGTCTGGGCCTAGTTGTCTCCCTCTGGAGCCCCGCTCCTGTGG
TCTGCCTCAGTTTCCCTCCTAATACATATGGCTGTTTTCCACCTCGATAATATAACACGAGTTTGGGCCC

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FIGURE 5549

TTTCTTTTTTTCAGGCGGCCGGAAGATGGCGGACATTGAGCTGAGCGTGCCTACCAAAAGCAGCCGACCATCT
TTCAAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAACATCGGTC
TGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCTTCACTGGTAATGTGT
CCATTGAGGGCGGATCCTCTCTGGCGTGGTGACCAAGATGAAGATGCAGAGGACCATTGTCATCCGCCGAGACT
ATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCCCCCTGCT
TCAGGGACGTCCAGATCGGTGACATCGTCACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGCCTTCAACG
TGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCCAGAAGTTCTGAGGCTGGACATCGGCCCCGCTCCC
CACAATGAAATAAAGTTATTTTCTCATTCCCAGGCCAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5550

CTTTTCCAAGCGGCTGCCGAAGATGCGCGGAGGTGCAGGTCCTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCG
CCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTCGTACGCTGTGAAGGCATCAACAT
TTCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTGGCTTTCCTCCGCAAGCGGATGAACACCAACCCTTCCCG
AGGCCCCTACCACTTCCGGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAA
GCGAGGCCAGGCCGCTCTGGACCGTCTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGAAAAAGCGGAT
GGTGGTTCTGCTGCCCTCAAGGTCGTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCA
CGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTA
CCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACAC
AGAGGTCCTCAAGACCCACGGACTCCTGGTCTGAGCCCAATAAAGACTGTTAATTCCTCATGCGTTGCCTGCCCT
TCCTCCATTGTTGCCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGTGCCACAGGCAGCCCTGGGACA
TAGGAAGCTGGGAGCAAGGAAAGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAATTGTGC
AGGTGTCATTTATCTATGACCAATAGGAAGAGCAACCAGTTACTATGAGTGAAAGGGAGCCAGAAGACTGATTGG
AGGGCCCTATCTTGTGAGTGGGGCATCTGTTGGACTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGC
AAGCACTTGGGGACAGCATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGC
ACAACCAAGGGGTTACAGGCATCGCCCATGCTCCTCACCTGTATTTGTAATCAGAAATAAATTGCTTTTAAAGA
AAAAAAAAAAAAAAAA

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FIGURE 5551

MAEVQVLVLDGRGHLGRLAAIVAKQVLLGRKVVVVRCEGINISGNFYRNKLKYLAF LRKRMNTNPSRGPYHFRA
PSRIFWRTVVRGMLPHKTKRGQAALDRLKVFDGIPPPYDKKKRMVVPALKVVRLKPTRKFAYLGRLAHEVGWKYQ
AVTATLEEKRKEKAKIHYRKKKQLMRLRKQAEKNVEKKIDKYTEVLKTHGLLV

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FIGURE 5552

CGCAGTCTTCGCGGAAAGCGTTTCGGGGTAGGCGATGGCTGCGACGCGTGACAGGGCCCCGCGCCCCGCGAGATCTTC
ACCTCGCTGGAGTACGGACCGGTGCCGGAGAGCCACGCAATGCGCACTGGCCTGGCTGGACACCCAGGACCGGTGC
TTGGGCCACTATGTGAATGGGAAGTGGTTAAAGCCTGAACACAGAAATTCAGTGCCCTTGCCAGGATCCCATCACA
GGCTGGCCGAGGTGATCCAGAAGCACCAGCGGCTGCTGTGGACCCTGGAATCCCTGGTGACTGGGCGGGCTGTTC
GAGAGGTTTCGAGACGGGGACGTCCAGCTGGCCCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCACCCAGG
AGGAGGCACTGGCAGGCTGGGAGCCCATGGGAGTAATTGGCCTCATCTGCCACCCACATTCTCCTTCCCTTGAGA
TGATGTGGAGGATTTGCCCTGCCCTGGCTGTGGGCTGCACCGTGGTGGCCCTCGTGCCCCCGGCTCCCCGGCGC
CCCTCCTCCTGGCCCCAGCTGGCGGGGAGCTGGGCCCTTCCCGGGAATCCTGAATGTCCTCAGTGGCCCTGCGT
CCCTGGTGCCCATCCTGGCCTCCCAGCCTGGAATCCGGAAGGTGGCCTTCTGCGGAGCCCCGGAGGAAGGGCGTG
CCCTTCGACGGAGCCTGGCGGGAGAGTGTGCGGAGCTGGGCCTGGCGCTGGGGACGGAGTCGCTGCTGCTGCTGA
CGGACACGGCGGACGTAGACTCGGCCGTGGAGGGTGTCTGTGGACGCCGCTGGTCCGACCGCGGCCCCGGGTGGCC
TCAGGCTCCTCATCCAGGAGTCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGGA
GTGGCCGAGGGCTGGATGGGGCCGTGGACATGGGGGCCGGGGGGCTGCCGCATGTGACCTGGTCCAGCGCTTTG
TGCGTGAGGCCCAGAGCCAGGGTGCACAGGTGTTCCAGGCTGGTGTATGTGCCCTTCGGAACGCCCATTTCTATCCCC
CAACCTTGGTCTCCAACCTGCCCCCAGCCTCCCCATGTGCCCAGGTGGAGGTGCCGTGGCCTGTGGTGTGGCCT
CCCCCTTCCGCACAGCCAAGGAGGCACTGTTGGTGGCCAAACGGGACGCCCCGCGGGGGCAGCGCCAGTGTGTGGA
GCGAGAGGCTGGGGCAGGCGCTGGAGCTGGGCTATGGGCTCCAGGTGGGCACTGTCTGGATCAACGCCACGGCC
TCAGAGACCCCTTCGGTGCCACAGGCGGCTGCAAGGAGAGTGGGTGTTCTGGCACGGGGGCCAGACGGGCTGT
ATGAGTATCTGCGGCCCTCAGGAGCCCCCTGCCGGCTGTCTGCTCTCCAAGAACCTGAACTATGACACCTTTG
GCCTCGCTGTTCCCTCAACCTGCCGGCTGGGCCTGAAATAGGGCCAGCCAGCACCCCCCTATGGGCTCTTCG
TTGGGGGCGGTTTCCAGGCTCCTGGGGCCGAAGCTCCAGGCCATCCGGGATTCGTCTGGCAACCTCCATGGCT
ACGTGGCTTGAGGCTGGAGCCAAGGACATCCGAGTGCTGTGGAGGCGCTCACCAGGCTTTCCCTGGCTGGGCGG
GCCAGTCCCCAGGAGCCCGGGCAGCCCTGCTGTGGGCCCTGGCGGCTGCACTGGAGCGCCGGAAGTCTACCCTGG
CCTCGAGGCTGGAGAGGCGAGGAGCGGAGCTCAAGGCTGCGGAGGCGGAGGTGGAGCTGAGCGCAAGACGACTTC
GGGCGTGGGGGGCCCGGGTGACAGGCCAAGGCCACACCCTGCAGGTAGCCGGGCTGAGAGGCCCTGTGCTGCGCC
TGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCCGGACGAGTGGCCCCCTGCTTGCCCTTCGTGTCCCTGCTGG
CTCCCCGCCCTGGCCTACGGCAACACTGTGGTCAATGGTGCCAGTGCGGCTGTCTCTGCTGGCCCTGGAGGTCT
GCCAGGACATGGCCACCGTGTTCACGAGGCGCTGGCCAACGTGGTGACAGGAGACCGGGACCATCTGACCCGCT
GCCTGGCCTTGACCAAGACGTCCAGGCCATGTGGTATTTCCGATCAGCCAGGGTTCCCAGTTTGTGAGTGGG
CCTCGGCAGGAAACCTCAAACCGGTGTGGGCGAGCAGGGGCTGCCCGCGGCTGGGACCAGGAGGCCGAGGGGG
CAGGCCCAGAGCTGGGGCTGCGAGTGGCGCGGACCAAGGCCCTGTGGCTGCCTATGGGGGACTTGATGCCTGAGCG
CCACCTACTGCATTTTGGACACCTCACACCAAGGGGAGATGCACCCACAGACACCTGGGACTTTCCCTTCTGG
TTCTGTGTCTCCCAATAAACTCTCTGACCAACCCTAGCTGTGCTTCTGCGAGAAGAAAGGGTGTAGCAACTTCT
GGCAGATATGAGGCTTTTTTCTTTTTTTTTTTTTTTTTTGTAGACAACGTCTGGCTCTGTACCCAGGCTGGAGCG
CAGTGGCACAATCTCGGCCACTGCAGCCTCGACCTCTGGGGCTCAAGGGATCCTCATGCCTCAGCCTCATATGT
AGCTGGGGCCACAGACATGCACCACCACACCTGGCTCGAGGCCATTTAGTTCTGAGGTTGAGCAGCTCAGGAGC
CGGCTCCAGCACGGTGTGTGTTGTGAAACAGAGAAAGGGGACCCCCGAGGACCCAGACAGGGCCTTAGGACT
CTCATATCTTCTGTCTTCTCCATCTGGTGGCTCTGTCTCTGGTTTTCTCTACCTTTTCATGGCCCCAGAATC
CATATGCAGTAAAGGAACTCTCTGGAATAAAATTAAAGTCCTCCT

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FIGURE 5553

MGVIGLILPPTFSFLEMMWRICPALAVGCTVVALVPPASPAPLLLAQLAGELGPFPGILNVLSGPASLVPILASQ
PGIRKVAFCGAPEEGRALRRSLAGECAELGLALGTESLLLLTDTADVDSAVEGVVDAAWSDRGPGGLRLLIQESV
WDEAMRRLQERMGRRLRSGRGLDGAVDMGARGAAACDLVQRFVREAQSQGAQVFQAGDVPSEPFYPPTLVSNLPP
ASPCAQVEVPWPVVVASPFRTAKEALLVANGTPRGGSASVWUSERLGQALELGYGLQVGTWVINAHGLRDESVPTG
GCKESGCSWHGGPDGLYEYLRPSGTPARLSCLSKNLNYDTFGLAVPSTLPAGPEIGPSPAPPYGLFVGGRFQAPG
ARSSRPIRDSSGNLHGYVAEGGAKDIRGAVEAAHQAFPGWAGQSPGARAALLWALAAALERRKSTLASRLERQGA
ELKAAEALEVELSARRLRAWGARVQAQGHTLQVAGLRGPVLRRLREPLGVLAVVCPDEWPLLAFFVSLLAPALAYGNT
VVMVPSAACPLLALEVCQDMATVFPAGLANVVTGDRDHLTRCLALHQDVQAMWYFGSAQGSQFVEWASAGNLKPV
WASRGCPRAWQEAEGAGPELGLRVARTKALWLPMGD

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FIGURE 5554

ACAGTTCGGCACGTAGGACGGAGGGTAGTGCGTCTAGAGACACATATTCCCCACGGATTTGACGATGGTGTTCGG
TCTTGAATGGAAATGTAGTCTTAGGCCAGTCTTAGGTTTTTGAACAGGATAGTAGGTATCCGGAGTCGATTGAGG
GCCAGAGCAGGCACTGGGGTTCGGATCCTGGGCAAAGTTTCCACGTTGAGGGTCTCGAGGACGCCTAGATCTCT
TTCCCAGGGCCATGGCGAAACCCGAAGCTGCTGGGAATGGGGCTAAGCGAGGCGGAGGCGATCGGTGCTGATTTCGG
CGCGATTTGAGGAGCTGCTGCTGCAGGCCTCGAAGGAGCTCCAGCAAGCCCAGACAACCAGACCAGAATCGACAC
AAATCCAGCCTCAGCCTGGTTTCTGCATAAAGACCAACTCCTCGGAAGGGAAGGTTTTTCATCAACATCTGCCACT
CCCCCTCTATCCCTCCTCCCGCCGACGTGACCGAGGAGGAGCTGCTTCAGATGCTAGAGGAGGACCAAGCTGGGT
TTCGCATCCCCATGAGTCTGGGAGAGCCTCATGCAGAACTGGATGCAAAAGGCCAGGGATGTACCGCCTACGACG
TAGCTGTCAACAGCGACTTCTACCGGAGGATGCAGAACAGCGATTTCTTGCGGGAGCTCGTGATCACCATCGCCA
GGGAGGGCCTTGAGGACAAATACAACCTGCAGCTGAATCCGGAATGGCGCATGATGAAGAACCGGCCATTTCATGG
GCTCCATCTCGCAGCAGAACATCCGCTCGGAGCAGCGTCTCGGATCCAGGAGCTGGGGGACCTGTACACGCCCG
CCCCCGGGAGAGCTGAGTCAGGGCCTGAAAAGCCTCACCTGAACCTGTGGCTGGAAGCCCCCGACCTCCTCTTGG
CCGAAGTTGACCTCCCCAACTGGATGGAGCCCTGGGGCTGTCGCTGGAGATCGGGGAGAACCGCCTGGTGATGG
GGGGCCCCCAGCAGCTGTATCATCTAGACGCTTATATCCCGCTGCAGATCAACTCTCATGAGAGCAAGGCAGCCT
TCCACCGGAAGAGAAAGCAATTAATGGTGGCCATGCCGCTTCTGCCGGTGCCTTCTTGATCAGGGTGTCTCCTTG
TGCTTCTGAGATGTGGAGAAGAGGCTGCTGGCTTCCCTAAAAGTTGAAATAAAAGATTTTTGCCTTTAAAAAAA
AAAAAAA

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FIGURE 5555

MANPKLLGMGLSEAEFAIGADSARFEELLLQASKELQQAQTTRPESTQIQPQPGFCIKTNSSEGKVFINICHSPSI
PPPADVTEEEELLQMLEEDQAGFRIPMSLGEPHAELDAKGQGCTAYDVAVNNSDFYRRMQNSDFLRELVITIAREGL
EDKYNLQLNPEWRMMKNRPFMGSI SQQNIRSEQRPRIQELGDLYTPAPGRAESGPEKPHNLWLEAPDLLLAEVD
LPKLDGALGLSLEIGENRLVMGGPQQLYHLDAYIPLQINSHESKA AFHRKRKQLMVAMPLLPVPS

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FIGURE 5556

CCCAC TTTTCCCAAACAAAGCTCCCGGCAACTTTCTCCCTCGCAGCGCCCCGCCCGCCCGCGGCTCCCCAGCCCC
AGGCCGGGAGGCCAGATGGGGGAACCCCGGGCTGGGGCCGCCCTGGACGATGGCAGCGGCTGGACGGGCAGTGA
GGAAGGCAGTGAGGAGGGTACCGGCGGCAGTGAGGGGGCTGGGGGTGACGGGGGCCCGGATGCAGAGGGGGTGTG
GAGCCCAGACATTGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTATCCACCCTGCGGCCGCCGGAATAATTTT
GTCTGATGAAGGCAAGATGTATGGTCGGAATGAACTGATCGCCCGCTACATCAAGCTGAGAACGGGGGAAGACCCG
AACTCGAAAACAGGTTTCTAGTCACATCCAGGTTTTGGCCCCGAAGGAAATCAAGGGAAATCCAGTCCAAGTTGAA
GGACCAGGTTTCCAAGGACAAGGCTTTCCAGACAATGGCAACCATGTCCTCTGCCCAGCTCATCTCCGCGCCTTC
TCTGCAGGCCAAACTGGGTCCCCTGCTCCTCAGGCCTCTGAGCTTTTCCAGTTTGGTCTGGAGGATCTGGGCC
CCCCTGGAATGTTCCAGATGTGAAGCCATTCTCACAGACACCGTTCACCTTGTCAGTACTCCCCCATCTACTGA
CCTCCCAGGGTACGAGCCCCCCCCAAGCCCTCTCACCCTGCCCCACCTACCCCATCGCCCCAGCCTGGCAGGC
TCGGGGCCTGGGCACCGCCCGGTTGCAGCTGGTAGAGTTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATTC
TTACCAGAGGCACCTGTTGTCGTCACATCAGCCAGCACTGCCCCAGCCCCGGAGCGCCGCCGCTCGAGAGTGTGGA
CGTCCGGCAGATCTACGACAAATTCCCTGAGAAAAAGGTGGCCTCCGAGAGCTATATGATCGTGGCCCCCCCCA
TGCCTTCTTCTGGTCAAGTTCTGGGCGGACCTGAACTGGGGCCCAAGTGGTGAGGAGGCAGGGGCCGGTGGCAG
CATCAGCAGTGGTGGCTTCTACGGAGTGAGCAGCCAGTATGAGAGCCTGGAACACATGACCCCTACCTGTTCTCTC
CAAGGTCTGCTCTTTTGGCAAGCAGGTGGTGGAGAAGGTGGAGACGGAACGGGGCCAGCTGGAGGACGGCAGATT
TGTGTACCGCCTGCTGCGCTCGCCCATGTGCGAGTACCTGGTGAATTTCTTGACAAGTTGCGGCAGCTGCCTGA
GCGATACATGATGAACAGCGTCTTGAAAACTTCACCATCCTCCAGGTGGTGACAAACAGAGACACCCAGGAACT
GCTGCTCTGCACCGCCTATGTCTTCGAGGTCTCCACCAGCGAGCGTGGGGCCAGCATCACATTTACCGCCTGGT
CAGGGACTGAAGGGGGACCCCCAAACTGGCTCACCCCCAGAACACCCCTCCTCCCAGGGAGGGTCTCTCAGCTCA
CCTCATGCTTCTTATTTGGGGAGAGGGCTGTGATGTAAAGGGGTTGACCTCAGAGGCCTAAGCAACTGGGGCCAT
CCCCCATTAGAGGGGGCCCCCAAACTTGGTTGGAGAGCTGAACAGGCTGGGACTGAGGAAAGGATAAACCCCG
ATATTGGGACCTCACAGTGGGTGTCTGAAAGGACAGATCACTCCGGAGTATCAGGGATTGTGGGGACAGGAGTGA
GACAACCCCCCAGGTACAGCACTGGCTTTTCTTTTTCAGCCCCTGACAGGCCACCCCACTCCTCTGCATGTCTTG
GAGAGCGCTAGTTACACATTGGCTTGTCCCTTTTACTTTTTTCCAGCCACCCCTCCCCCTGAAATTTCTGCCCT
CTCTACCACCCCTCACTCCATGACCTGTGAGATCACAAAGTGAAGATGAACCTTTCTGTGCAGGAGCAGAGCCAG
GTGGGCCCTGGACATTTTTTTTTTTTTTAATATAACGAGATATTTATAAGTGGGTGCTAGGGTCTTGACTTTATC
TCCGCTGCACAAGCAGTGTGTTGAACCTTTCTAATCTCATCCCTCTCCTAAGTGAGCCCTGAGCTAGACGGTTTCC
TTCCCTCCCCTCTCAAAGTTTGTGTTGTTGTTCTGACAGAGGATAAAGCTATTTTACCAAAAAAAAAAAAAAA
AA

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FIGURE 5557

MGEPRAGAALDDGSGWTGSEEGSEEGTGGSEAGAGDGGPDAEGVWSPDIEQSFQEALAIYPPCGRRKIILSDEGK
MYGRNELIARYIKLRTGKTRTRKQVSSHQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQLISAPSLQAKL
GPTGPPQASELFQFWSGGSGPPWNPDPVKPFSQTPFTLSLTPSTDLPGYEPPQALSPLPPPTPSPPAWQARGLT
ARLQLVEFSAFVEPPDAVDSYQRHLFVHISQHCPSPGAPPLESVDRVRIYDKFPEKKGGLRELYDRGPPHAFFLV
KFWADLNWGPSGEEAGAGGSISSGGFYGVSSQYESLEHMTLTCSSKVCSTGKQVVEKVETERAQLEDGRFVYRL
RSPMCEYLVNFIHLKLRQLPERYMMNSVLENFTILQVVTNRDTQELLCTAYVFEVSTSERGAQHIIYRLVRD

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FIGURE 5558

GTTGGTGAGCATCATGGCAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCG
AATCGGTGCCCACCTCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCAT
GGTGGGTGAGCTGGCGGCACGGCGGGCGGCTGGCGTGGTGCTGGAGATGATCCGGGAAGGGAAGATTGCCGGTTCG
GGCAGTCCCTTATTGCTGGCCAGCCGGGCACGGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCCTGGGCC
TGACACGCCATTACAGCCATCGCCGGCAGTGAAATCTTCTCCCTGGAGATGAGCAAGACCGAGGCGCTGACGCA
GGCCTTCCGGCGGTCCATCGGCGTTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGGGAGGTGGTGGAGATCCA
GATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAACCTGACCCTCAAGACCACAGAGATGGAGACCAT
CTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGTCCAGGCCGGGGACGTGATCACCATCGA
CAAGGCGACGGGCAAGATCTCCAAGCTGGGCGCTCCTTCACACGCGCCCGCGACTACGACGCTATGGGCTCCCA
GACCAAGTTCGTGCAGTGGCCAGATGGGGAGCTCCAGAAACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGA
GATCGACGTCATCAACTCTCGCAGCCAGGGCTTCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGA
AGTCCGTGAGCAGATCAATGCCAAGGTGGCTGAGTGGCGCGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGCT
GTTTCATCGACGAGGTCCACATGCTGGACATCGAGAGCTTCTCCTTCTCAACCGGGCCCTGGAGAGTGACATGGC
GCCTGTCTGATCATGGCCACCAACCGTGGCATCACGCGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCAT
CCCCATAGACCTGCTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAGACACGAAGCAGATCCT
CCGCATCCGGTGCGAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGCTGACCCGCATCGGGCTGGA
GACGTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGGAACGCAAGGGTACAGAAGT
GCAGGTGGATGACATCAAGCGGGTCTACTACTCTTCTGGACGAGTCCCGCTCCACGCAGTACATGAAGGAGTA
CCAGGACGCCTTCTCTTCAACGAACTCAAAGGCGAGACCATGGACACCTCCTGAGTTGGATGTCATCCCCCGAC
CCCACCTGTTTTCCACCAGAGTTCTGACACTGTGACTCTGTATAAAATGGTTGGGAAGCTGC

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FIGURE 5559

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVLEMIREGKIAGRAVLI
AGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIIIEGEVVEIQIDRP
ATGTGSKVGKLTTLKTTEMETIYDLGTMIESLTKDKVQAGDVITIDKATGKISKLGSRFTRARDYDAMGSQTKFV
QCPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDE
VHMLDIESFSFLNRALES DMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTKQILRIRC
EEEDVEMSEDAYTVLTRIGLETSLRYAIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESRSTQYMKEYQDAF
LFNELKGETMDTS

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FIGURE 5560

CGCTTCGGGGCAGGGGTGCGGTCTTGCAATAGGAAGCCGAGCGTCTTGCAAGCTTCCCGTCGGGCACCAGCTACT
CGGCCCCGCACCCTACCTGGTGCATTCCCTAGACACCTCCGGGGTCCCTACCTGGAGATCCCCGGAGCCCCCTT
CCTGCGCCAGCCATGCTTTTAAACCGCACTTTGTCCATGTCCTCACTGCCAGGACTGGAGGACTGGGAGGATGAA
TTCGACCTGGAGAACGCAGTGCTCTTGAAGTGGCCTGGGAGGTGGCTAACAAGGTGGGTGGCATCTACACGGTG
CTGCAGACGAAGGCGAAGGTGACAGGGGACGAATGGGGCGCAACTACTTCTGGTGGGGCCGTACACGGAGCAG
GGCGTGAGGACCCAGGTGGAAGTCTGAGGGCCCCACCCCGGCCCTGAAGAGGACACTGGATTCCATGAACAGC
AAGGGCTGCAAGGTGTATTTGCGGCGCTGGCTGATCGAGGGAGGCCCTCTGGTGGTGTCTCTGGACGTGGGTGCC
TCAGCTTGGGCCCTGGAGCGCTGGAAGGGAGAGCTCTGGGATACCTGCAACATCGGAGTGCCGTGGTACGACCGC
GAGGCCAACGACGCTGTCTCTTTGGCTTTCTGACCACCTGGTTCTGGGTGAGTTCTGGGCACAGAGTGAGGAG
AAGCCACATGTGGTTGCTCACTTCCATGAGTGGTTGGCAGGCGTTGGACTCTGCCTGTGTCTGTCGCCGGCGACTG
CCTGTAGCAACCATCTTCAACCCCATGCCACGCTGCTGGGGCGCTACCTGTGTGCCGGTGCCGTGGACTTCTAC
AACAACCTGGAGAACTTCAACGTGGACAAGGAAGCAGGGGAGAGGCAGATCTACCACCGATACTGCATGGAAAGG
GCGGCAGCCCACTGCGCTCACGTCTTCACTACTGTGTCCCAGATCACCGCCATCGAGGCACAGCACTTGCTCAAG
AGGAAACCAGATATTGTGACCCCCAATGGGCTGAATGTGAAGAAGTTTTCTGCCATGCATGAGTTCCAGAACCCTC
CATGCTCAGAGCAAGGCTCGAATCCAGGAGTTTGTGCGGGGCCATTTTTATGGGCATCTGGACTTCAACTTGGAC
AAGACCTTATACTTCTTTATCGCCGGCCGCTATGAGTTCTCCAACAAGGGTGTGACGTCTTCTGGAGGCATTG
GCTCGGCTCAACTATCTGCTCAGAGTGAACGGCAGCGAGCAGACAGTGGTTGCCTTCTTCATCATGCCAGCGCGG
ACCAACAATTTCAACGTGGAACCCCTCAAAGGCCAAGCTGTGCGCAAACAGCTTTGGGACACGGCCAAACAGGTG
AAGGAAAAGTTCGGGAGGAAGCTTTATGAATCCTTACTGGTTGGGAGCCTTCCCGACATGAACAAGATGCTGGAT
AAGGAAGACTTCACTATGATGAAGAGAGCCATCTTTGCAACGCAGCGGCAGTCTTTCCCCCTGTGTGCACCAC
AATATGCTGGATGACTCCTCAGACCCCATCTTGACCACCATCCGCCAATCGGCCTCTCAATAGCAGTGCCGAC
AGGGTGAAGGTGATTTTCCACCCGGAGTTCTCTCCTCCACAAGCCCCCTGCTCCCTGTGGACTATGAGGAGTTT
GTCCGTGGCTGTACCTTGGAGTCTTCCCCTCTACTATGAGCCTTGGGGCTACACACCGGCTGAGTGCACGGTT
ATGGGAATCCCCAGTATCTCCACCAATCTCTCCGGCTTCCGGTGTCTCATGGAGGAACACATCGCAGACCCCTCA
GCTTACGGTATCTACATTCTTGACCGGCGGTTCCGCAGCCTGGATGATTCTGCTCGCAGCTCACTCCTTCTCTC
TACAGTTTCTGTGACGAGAGCCGGCGGCAGCGTATCATCCAGCGGAACCGCACGGAGCGCCTCTCCGACCTTCTG
GAGGAAATCCCACTAGGCCGGTACTATATGTCTGCGCGCCACATGGCGCTGTCCAAGGCCTTTCCAGAGCACTTC
ACCTACGAGCCCCAAGAGGCGGATGCAGGCCCAGGGGTACCGCTACCCACGGCCAGCTCGGTGCCACCGTGC
CTCGCTGTACGACACTCCAGCCCGCACCAGGAGGAGGAGGAGGAGGATCCCCGGAACGGGCCGCTGGAGGAAGA
CGGCGAGCGCTACGATGAGGACGAGGAGGCGCCGCAAGGAGCGCAACATCCGTGCACAGAGTGGCCGCGCGG
AGCGTCTGCACTCCTCCACCAGCGGCAGCAAGCGCAACTCTGTGGACACGGCCACCTCCAGCTCACTCAGCAC
CCCAGCGAGCCCCCTCAGCCCCACCAGCTCCCTGGGCGAGGAGCGTAACATAAGTCCGCCCCACCACACTCCCCGC
CTGTCTGCTCTCTGCTCCAGAGAGAGGATGCAGAGGGGTGTGCTCCTAAACCCCCGCTCCAGATCTGCACATG
GGTGTGGCCCCGAGTGCCCCACCCAGTCCGCCAAACACTCCACCCCTCCAGCTCCAGTTTCCAAGTTCTCTGC
ACTCCAGAATCCACAAAGCCGTGCCTTTCTCTGGCTCCAGAATATGCATAATCAGCGCCCTGGAGTCCCCTGGGC
CTGGACCGCTTCCAGAGGCCAGGAATCTGCCATTACTCTGCGGTGGTGCCAGAGGTTTTAGGAAACCTGGCATG
GTGCTTTTCAAGTCTGGGGCTTTTAGAGCCCCCGTGTGGCTTACAAATTCTACAGCATACAGAGCAGGCCACGCT
CAGGCCCCGCATGCGGGCCACCAAGTTCTGGAACCCAGTGGTGTCCCTGCGAATGGGGCGATCAAGTCCAGAGC
CGGGGCACTTTCAAGTTTTGAAGGTAAGTGAAGCAGATGGTCTCCATTTCAACTCCAGAAGTGGGGCTCTGGG
AGGGATGTTCTAGCCCTCCCTGGCATGTGAGAGCCAGGCTCTGCTGGAGGATCCCTCCATCCGGCTCCTGTCTAT
CCCCTACACTTTGGCCAAGCAAGAGGTGGTAGAACCATTGGCTGCTCATTCTCTGAGGACACACAGTCTCA
GTCCAGATGCCTTCTGTCTTTCTGGCCCTTTCTGGACCAGATCCTACTCTTCTTTCTAAATCTGAGATCTCCC
TCCAGGGAATCCGCTGCAGAGGACAGAGCTGGCTGTCTTCCCCCACCCTAACCTGGCTTATTCCCAACTGCTC
TGCCCACTGTGAAACCACTAGGTTCTAGGTCCTGGCTTCTAGATCTGGAACCTTACCACGTTACTGCATACTGAT
CCCTTTCCCATGATCCAGAAGTGAAGTCACTGGGTTCTAGAACCCCCACATTTACCTCGAGGCTCTTCCATCCCC
AAACTGTGCCCTGCCTTCAAGCTTTGGTGAAAGGGAGGGCCCCCTCATGTGTGCTGTGCTGTGTCTGCACCGCTTGG
TTTGAGTTGAGAGGGGAGGGCAGGAGGGGTGTGATTGGAGTGTGTCCGGAGATGAGATGAAAAAATACATCTA
TATTTAAG

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FIGURE 5561

MPLNRTLMSSSLPGLEDWEDEFDLENVLF EVAWEVANKVGGIYTVLQTKAKVTGDEWGDNYFLVGPYTEQGVRT
QVELLEAPTPALKRTLDSMNSKGCKVYFGRWLI EGGPLVVLLDVGASAWALERWKGE LWDTCNIGVPWYDREAND
AVLFGFLT TWFLGEFLAQSEEKPHVVAHFHEWLAGVGLCLCRARRLPVATIFTTHATLLGRYLCAGAVDFYNNLE
NFNVDKEAGERQIYHRYCMERAAAHCAHVFTTVSQITAIEAQHLLKRKPDIVTPNGLNVKKFSAMHEFQNLHAQS
KARIQEFVRGHFYGHLDNFNDKTLTYFFIAGRYEFSNKGADVLEALARLNYLLRVNGSEQTVVAFFIMPARTNNF
NVETLKGQAVRKQLWDTANTVKEKFGRKLYESLLVGSLPDMNKMLDKEDFTMMKRAIFATQRQSFPVCTHNMLD
DSSDPILTTIRRI GLFNSSADRVKVIHFPEFLSSTSPLLPVDYEEFVRGCHLGVPFSPYYEPWGYTPAECTVMGIP
SISTNLSGFGCFMEEHIADPSAYGIYILDRRFRSLDDSCSQLTSFLYSFCQQSRRQRI IQNRNTERLSDLLDWKY
LGRYYMSARHMALSKAFPEHFTYEPNEADAGPGVPLPTASLGATVALAVTTLQPAPE

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FIGURE 5562

GTCCCGCGGGTCTGTCTCTTGCTTCAACAGTGTGTTGGACGGAACAGATCCGGGGACTCTCTTCCAGCCTCCGACC
GCCCTCCGATTTCTCTCCGCTTGCAACCTCCGGGACCATCTTCTCGGCCATCTCCTGCTTCTGGGACCTGCCAG
CACCGTTTTTGTGGTTAGCTCCTTCTTGCCAACCAACCATGAGCTCCCAGATTCGTCAGAATTATTCCACCGACG
TGGAGGCAGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATT
TCGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCT
ACGAGCGTCTCCTGAAGATGCAAAACCAGCGTGCGGCGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAG
ATGAGTGGGGTAAAAACCCAGACGCCATGAAAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTTTGG
ATCTTCATGCCCTGGGTCTGCCCCGACGGACCCCCATCTCTGTGACTTCTTGGAGACTCACTTCCTAGATGAGG
AAGTGAAGCTTATCAAGAAGATGGGTGACCACCTGACCAACCTCCACAGGCTGGGTGGCCCCGAGGCTGGGCTGG
GCGAGTATCTCTTCGAAAGGCTCACTCTCAAGCACGACTTAAGAGCCTTCTGAGCCCAGCGACTTCTGAAGGGCCC
CTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTTCTTAACCTATCCTAACCAAG
CCTTGACCAAATGGAAATAAAGCTTTTTGATGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5563

MSSQIRQNYSTDVEAAVNSLVNLYLQASYTYLSLGFYFDRDDVALEGVSHFFRELAEKREGYERLLKMQNQGG
RALFQDIKKPAEDEWGKTPDAMKAAMALEKKLNQALLDLHALGSARTDPHLCDFLETHFLDEEVKLIKMGDHLT
NLHRLGGPEAGLGEYLFERLTLKHD

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FIGURE 5564

GCTGCGGCCGCCGCGCGGACCCGGCGAGAGGCGGGCGGGGAGCGGGCGGTGATGGACGGGTCCGGGGAGCAGCC
CAGAGGCGGGGGGGCCACCAGCTCTGAGCAGATCATGAAGACAGGGGGCCCTTTTGCTTCAGGGTTTCATCCAGGA
TCGAGCAGGGCGAATGGGGGGGGAGGCACCCGAGCTGGCCCTGGACCCGGTGCCTCAGGATGCGTCCACCAAGAA
GCTGAGCGAGTGTCTCAAGCGCATCGGGGACGAAGTGGACAGTAACATGGAGCTGCAGAGGATGATTGCCGCCGT
GGACACAGACTCCCCCGAGAGGTCTTTTTCCGAGTGGCAGCTGACATGTTTTCTGACGGCAACTTCAACTGGGG
CCGGGTTGTCGCCCTTTTCTACTTTGCCAGCAAAGTGGTGTCTCAAGGCCCTGTGCACCAAGGTGCCGGAAGTGT
CAGAACCATCATGGGCTGGACATTGGACTTCCTCCGGGAGCGGCTGTTGGGCTGGATCCAAGACCAGGGTGGTTG
GGTGAGACTCCTCAAGCCTCCTCACCCCCACCACCGCGCCCTCACCACCGCCCCCTGCCCCACCGTCCCTGCCCCC
CGCCACTCCTCTGGGACCCTGGGCCTTCTGGAGCAGGTACAGTGGTGGCCCTCTCCCCATCTTCAGATCATCAGA
TGTGGTCTATAATGCGTTTTCTTACGTGTCTTGATCAATCCCCGATTCTATCTACCCTGCTGACCTCCCAGTGACC
CCTGACCTCACTGTGACCTTGACTTGATTAGTGCCTTCTGCCCTCCCTGGAGCCTCCACTGCCTCTGGAATTGCT
CAAGTTCATTGATGACCCTCTGACCCTAGCTCTTTCTTTTTTTTTTTTT

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FIGURE 5565

MDGSGEQPRGGGPTSSEQIMKTGALLLQGF IQDRAGRMGGEAPELALDPVPQDASTKKLSECLKRIGDELDNME
LQRMIAAVD TDSPREVFFRVAADMFS DGNFNWGRVVALFYFASKLVLKALCTKVPELIRTIMGWTLD FLRERLLG
WIQDQGGWVRL LKPPHPHHRALTTAPAPPSLPPATPLGPWAFWSRSQWCPLPIFRSSDVVYNAFSLRV

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[illegible]

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FIGURE 5567

MPPSGPRGTTTTLLPLLLLLLLLRAVLAVPLERGA
PNKEETPATESPDTGLYYHRYLQEVIDVLETDG
HGFREKLQAA
NAEDIKSGKLSRELDVSHHVRTKLDELKRQEV
SRLRMLLKAKMDAEQDPNVQVDHLNLLKQFE
HLDPQNQHTFE
ARDLELLIQTATRDLAQYDAAHHEEFKRYEML
KEHERRRYLES LGEEQRKEAERKLEEQQRRH
REHPKVNVP GSQ
AQLKEVWEELDGLDPNRFNPKTFFILHDINSD
GVLDEQELEALFTKELEKVYDPKNEEDDMRE
MEEERL RMREHV
MKNVDTNQDRLVTLEEF LASTQRKEFGDTGE
GWETVEMHPAYTEEELRRFEEELAAREAE
LNAKAQRLSQET EAL
GRSQGRLEAQKRELQQAVLHMEQRKQQQQQ
QGHKAPAAHPEGQLKFHPDTDDVPVPAPAGD
QKEVDTSEKKLLE
RLPEVEVPQHL

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FIGURE 5568

ATGGCCGCAGCCGCTCTGGGGCAGATCTGGGCACGAAAGCTTCTCTCTGTCCCTTGGCTTCTGTGTGGTCCCAGA
AGATATGCCTCCTCCAGTTTCAAGGCTGCAGACCTGCAGCTGGAAATGACACAGAAGCCTCATAAGAAGCCTGGC
CCCGGCGAGCCCCTGGTGTTTGGGAAGACATTTACCGACCACATGCTGATGGTGGAATGGAATGACAAGGGCTGG
GGCCAGCCCCGAATCCAGCCCTTCCAGAACCTCACGCTGCACCCAGCCTCCTCCAGCCTCCACTACTCCCTGCAG
CTGTTTGAGGGCATGAAGGCGTTCAAAGGCAAAGACCAGCAGGTGCGCCTCTTCCGCCCTTGGCTCAACATGGAC
CGGATGCTGCGCTCAGCCATGCGCCTGTGCCTGCCGAGTTTCGACAAGCTGGAGTTGCTGGAGTGCAATCCGCCGG
CTCATCGAAGTGGACAAGGACTGGGTCCCCGATGCCGCCGGCACCAGCCTCTATGTGCGGCCTGTGCTCATTGGG
AACGAGCCCTCGCTGGGTGTGAGCCAGCCCAGGCGCGCCTCTGTTTCGTCAATCTCTGCCAGTGGGTGCCTAC
TTCCCTGGAGGCTCCGTGACCCCGGTCTCCCTCCTGGCCGACCCAGCCTTCATCCGGGCCCTGGGTGGGCGGGGTC
GGCAACTACAAGTTAGGTGGGAATTATGGGCCCACCGTGTTAGTGCAACAGGAGGCACTCAAGCGGGGCTGTGAA
CAGGTCTCTGGCTGTATGGGCCCCGACCACAGCTCACCGAGGTGGGAACCATGAACATCTTTGTCTACTGGACC
CACGAAGATGGGGTGCTGGAGCTGGTGACGCCCCGCTGAATGGTGTTATCCTGCCTGGAGTGGTCAGACAGAGT
CTACTGGACATGGCTCAGACCTGGGGTGAGTTCCGGGTGGTGGAGCGCACGATCACCATGAAGCAGTTGCTGCGG
GCCTTGGAGGAGGGCCGCGTGCGGGAAGTCTTTGGCTCGGGCACCGCTTGCCAGGTCTGCCCAGTGACACCGAATC
CTGTACAAAGACAGGAACCTCCATATTCCACCATGGAATGGGCCTGAGCTGATCCTCCGCTTCCAGAAGGAG
CTGAAGGAGATCCAGTACGGAATCAGAGCCCACGAGTGGATGTTCCCGGT**GTA**AGCTGCAGGCTGTGCTCCAGA
TCCACCGACCCGTAGCATCTCGTCACGCCAGCACTCGCCTCCCTACCAATGACTCACCTGAAGTGCAATACGAAA
TAAAAGGCCAGCGGGCGCGTCTGGGTCTCTGGCGCCCCATGTGGTTGCGACACTCCCAAAGCCGTAAGGGCCG
ACCCAGGCATCTTGGCCCCCAGCCCCTCGTCGCGGGTTCAAGTCCGCCCATTAATCCTTGTGCTGCGGTCAAGGA
TACACCTTGGCCCCGATTCCGGATCTCTCCGTTCTCAGGCCAGACCCCTGGTGCTGCCGTTGATTTTTTTTTTCTC
TGTCCTTGCTGCAATTTTGAAATAAAATGCCAAAGAACAACAAAAA

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FIGURE 5569

MAAAALGQIWARKLLSVPWLLCGPRRYASSSFKAADLQLEMTQKPHKKPGGPEPLVFGKTF TDHMLMVEWNDKGW
GQPRIQPFQNLTLHPASSSLHYSLOLFEGMKAFKKGKDQQVRLFRPWLNMDRMLRSAMRLCLPSFDKLELLECIRR
LIEVDKDWVPDAAGTSLYVRPVLIGNEPSLGVSQPRRALLFVILCPVGAYFPGGSVIPVSLADPAFIRAWVGGV
GNYKLGGNYGPTVLVQQEALKRGCEQVLWLYGPDHQLTEVGTMNIFVYWTHEDGVLELVTPPLNGVILPGVVRQS
LLDMAQTWGEFRVVERTITMKQLLRAL E EGRVREVFSGTACQVCPVHRILYKDRNLHIPTMENGPELILRFQKE
LKEIQYGIRAH E WMPV

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FIGURE 5570

TCTGCTCTGAGCCCCGCCCAGCCCAGAAACCCCACTAGCCTGGGGCCTGAGAACAGCCACGCCACTCCCTCCTG
AGAGCCCACCGCGCCACAGCTTGGAGGAAGAGCCTGCGGGGAAGTGGCTGCAGGACGCTCTCTTCTTGAGTGCAG
GTGCTGGCTCTGCTGTGACCATGCCCCTGACCTTTGCCCTCCTGCTCCTCCTGGGCCAGGCCACTGCGGACCCAT
GCTACGATCCACAGGGCCGCCCCAATTCTGCCTCCCGCCAGTGACACAGCTGGCTGCCGTGGCGGCTCCTGCC
CTCAGGCCTGTGCCCTGTCCCCAGGAAACACCTTGGCGCCAGGGAAACCTGCAATGGCAGCCTGACTTTGGCCC
TGGGTGGCCCCCTTCTCCTGACATCTGTGAGCTTGGCTTCTGTACCCCAGGACCCCCAGCCCTCATCCTGTCTG
CTGCCTGGGCCTCAGGGGTCCCTGGAGGCTGCTGTGGCACAGGCCCGCCTGGCCTGGGGCCTTAGGGGGCCCTG
AAAGGGTGACCTTCCACTCCACACCAGGTCCTAAGGCCACTGTGGCGGCCAGCCACCTCCGTGTGGAGTTTGGGG
GCCAGGCCGGGCTAGCGGCAGCTGGGCTGAGAGGCCGCTGCCAGTGTGATGGCCACGCTGCCCGCTGTGCCGCCC
GTGCCCGGCCCGCCCTGCCACTGCCGCCACCATAACCTAGGCCCGGGGTGCGAGAGCTGCCCGCCGTCCCATC
GAGACTGGCCCTGGCGGCCTGCCACGCCCGGCACCCCCACCTTGCCTACCCTGCTCCTGCAACCAGCACGCCC
GACGCTGCCGGTTCAACTCTGAGCTGTTTCACTGTGCGGGCGGCCGGAGTGGGGGTGTTTGTGAGCGGTGCCGCC
ACCACACAGCTGGGCGGCACTGCCACTACTGCCAACCTGGGTTCTGGAGGGACCCCTAGCCAGCCTATCTTCAGCC
GCAGGGCCTGCAGAGCCTGCCAGTGCCACCCTATTGGGGCAACAGGAGGAACCTGCAACCAGACAGTGGGCAGT
GCACCTGCAAGTTAGGGGTACAGGCCTGACCTGCAACCGCTGTGGCCCTGGCTACCAGCAGAGCCGCTCCCCCA
GGATGCCCTGCCAGCAATTCCAGAGGCAACAACCACCTTGCCACTACTCCTGGTGCTTATAGCTCTGACCCTC
AGTGTCAAACTACTGCAATATGTGCGACACCAGGGTACACATGAGCCTTCGGAGGTACTGCCAGCAGGACCATG
TTCTCCGCGCGCAGGTGCTAGCGTCCGAGGCGGCGGCCCGGCATGGCAGCGGCTGGCCGTGCGCGTGTGGCCG
TTTACAAGCAGCGGGCGCAGCCCGTGCGACGCGGCGACCAGGACGCTGGGTGCCCCGCGCGACCTGACCTGCG
GCTGCCTGCGCCTGCAGCCAGGCACCGACTACCTGCTGCTGGGCAGCGCCGTGGGCGACCCCGACCCACGCGCC
TCATCCTCGACCGCCACGGCCTCGCGCTGCCATGGAGGCCGCGCTGGGCCCCGGCCCCCTGAAGCGGCTGCAGCAGG
AGGAGCGCGCCGGAGGCTGCCGCGGCGTGCGGGCACCCACACCCAGTCCCAGGCCGGAGCACTAGACGTGAGATG
GGGCTGCCTCGAGCACCACAAAGTAATTTGGGAGCGACTAGGAGCTGAGCCTTCTACCTCGACGGTGCAGTCA
GAGAGCCAATCAGACGTGCGAGAGCCCCGACGACACTATGCTTGCGCCACGCGGAGCAGGCGTGCGGAACTTTT
AGCAAAAGGCGGCAAGCGGGACTTCTGGTCCCAACATTTCTCCTTTGGCCTGTGGCTTATTCGCCCGCAGTGAT
CTGTTTCCCCCAATAAAGTCTCAAATCTTTGGG

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FIGURE 5571

CTTTCCGGACCTGGCCGAGCAGGAGGCGCCATCATGGGAGTGGACATCCGCCATAACAAGGACCGAAAGGTTTCGG
CGCAAGGAGCCCAAGAGCCAGGATATCTACCTGAGGCTGTTGGTCAAGTTATACAGGTTTCTGGCCAGAAGAACC
AACTCCACATTCAACCAGGTTGTGTTGAAGAGGTTGTTTATGAGTCGCACCAACCGGCCGCCTCTGTCCCTTTCC
CGGATGATCCGGAAGATGAAGCTTCCTGGCCGGGAAAACAAGACGGCCGTGGTTGTGGGGACCATAACTGATGAT
GTGCGGGTTCAGGAGGTACCCAACTGAAGGTATGTGCACTGCGCGTGACCAGCCGGGCCCCGCAGCCGCATCCTC
AGGGCAGGGGGCAAGATCCTCACTTTTCGACCAGCTGGCCCTGGACTCCCCTAAGGGCTGTGGCACTGTCCTGCTC
TCCGGTCCTCGCAAGGGCCGAGAGGTGTACCGGCATTTTCGGCAAGGCCCCAGGAACCCCGCACAGCCACACCAAA
CCCTACGTCCGCTCCAAGGGCCGGAAGTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTAA
CCCTGGATCCTACTCTCTTATTAAAAAGATTTTTTGCTGACAAAAAAA

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FIGURE 5572

MGVDIRHNKDRKVRREPKSQDIYLRLLVKLYRFLARRTNSTFNQVVLKRLFMSRTNRPPLSLSRMIRKMKLPGR
ENKTAVVVGTTITDDVRVQEVPKLKVCALRVTSRARSRI LRAGGKILTFDQLALDSPKGC GTVLLSGPRKGRE VYR
HFGKAPGTPHSHTKPYVR SKGRKFERARGRRASRGYKN

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FIGURE 5573

CTGCAGGGCCAGGCCTGGCCACACTTGGGCTGCTTCTCCTATCCCTCGTACCAGCCAGCCCCAGGCCTTCTGGAA
CTCTCAGCTGCCTCATCCTGCCTGCTTTTCCCTTCAACACTGCTTGGAGCTGTGTTTTCCAGGGCCTGAGCAGGC
'ATCTCCTGGGGAGCATGCAGTTCACCGGCCTTTGCCAGCCCAGGCTGGGACCCCTCCAGGTGGTGGGGCAGGTGCT
TCCATAGCCCCCTCCTGGCTCCTTGGCTTCCCACTCCCTCCTCTCCCCACAGACCCCTACGTCCGCTCCAAGGGCCG
GAAGTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTAACCCCTGGATCCTACTCTCTTATTA
AAAAGATTTTTGCTGAC

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FIGURE 5574

GGCACGAGGGTTTCGAAGATCGCGGCGCGCAAGGGTCGGCGTCGCACGTGTGAAACCGGGGAACCCATGGAAGCCG
AGTCCGGCGACACAAGTTCCGAGGGCCCGGCCAGGTCTACCTGCCCCGGCCGGGGGCCGCCGTACGCGAAGGGG
AGGAGCTGGTCATGGACGAGGAGGCCTATGTGCTCTACCACCGAGCGCAGACTGGCGCCCCCTGTCTCAGCTTTG
ACATAGTCCGGGATCACCTGGGAGACAACCGGACAGAGCTTCTCTTACACTTTACTTGTGTGCTGGGACCCAGG
CTGAGAGCGCCAGAGCAACAGACTGATGATGCTTCGGATGCACAATCTGCATGGGACAAAGCCCCCACCCTCAG
AGGGCAGTGATGAAGAAGAAGAGGAGGAAGATGAAGAGGATGAAGAAGAGCGGAAACCTCAGCTGGAGCTGGCCA
TGGTGCCCCACTATGGTGGCATCAACCGAGTTTCGGGTGTCTATGGCTGGGTGAAGAGCCTGTGGCTGGGGTGTGGT
CAGAGAAGGGCCAGGTGGAGGTGTTTGCCTGCGCGCGCTTCTGCAGGTGGTGGAGGAGCCCCAGGCCCTGGCAG
CCTTCTCCGGGATGAGCAGGCCCAAATGAAGCCCATCTTCTCCTTCGCTGGACACATGGGCGAGGGCTTTGCC
TTGACTGGTCCCCCGGGTGACCGGTGCGCTGCTGACCGGTGACTGTCAAAGAACATCCACCTCTGGACACCTA
CGGACGGCGGCTCCTGGCACGTGGACAGCGGCCATTCTGTGGGCCACACACGCTCTGTGGAGGACCTGCAGTGGT
CACCGACTGAGAACACGGTGTTCCTCTGCTCAGCTGACGCCTCCATCCGCATCTGGGACATCCGGGCAGCCC
CCAGCAAGGCCTGCATGCTCACCACAGCCACCGCCCATGATGGGGACGTCAATGTCATCAGCTGGAGCCGCCGGG
AGCCCTTCTGCTCAGTGGCGGGGATGATGGGGCCCTCAAGATCTGGGACCTTCGGCAGTTCAAGTCTGGTTCCC
CAGTGGCCACCTTCAAGCAGCACGTGGCCCCCGTGACCTCCGTGAGTGGCAGCCCCAGGACAGCGGGGTCTTTG
CAGCCTCGGGTGCAGACCACAGATCACACAGTGGGACCTGGCAGTGGAGCGGGACCCTGAGGCGGGCGACGTGG
AGGCCGACCCCGGACTGGCCGACCTCCCGCAGCAGCTGCTGTTCTGTCACCAGGGCGAGACCGAGCTGAAGGAGC
TGACTGGCACCCCGCAGTGGCCAGGGCTCCTGGTCAGCACGGCGCTGTCAGGCTTCACCATCTTCCGCACCATCA
GCGTCTGAGGCGTCCCACTGGCTCTGATCTTGCTTCTGCTTGGAACTGAAGTCGAATTGGGCTCCCCTGGAAG
GGGTTCAATTCAGGTCTGTTGACTGAGACTGGCCGGCCTGTGGGCTGCCGTGATGGATTCTGTTTGACGTATTGTT
CTCTAGAAGGCCTGGCTCTGATCCAGTGACCCCTCTCACCAGAACTCGGTTTAACCAGGGCTCTGTAAGACCA
CTCCACCCAGAGACTTGTGTGGCCTGGTGTGGCCTGTGTGTCGGATTCTTCTCTCAGCTGTGACCCATTGTA
CCTGTGTCCCCAGAACCCAGTTTTTTGTTTGTGTTTGTGTTGAGACGGAGTCTTGGTCTGTGCCCCAGGCTGGAGTGC
AGTAGCACGATCTTGGCTCACTGCAACCTCCGCCTCTGGGTTAAAGTGATTCTCTCAGCTCAGTCTCCCAGGTA
GCTGGGATTACAGGCATGTGCCACCACACCCCGTTAATTTTTGTATTTTTAGTAGAGACGGGGTTTACCATGTT
GGCCAGGCTGGTCTCAAATCTTGATCTCAAGTGATCTGTCCGCCCGGCCTCCAGAGTGTGGGTTGGGATTA
CAGGCGTGAGCCACCGCGTCCGGCTCAGGACCCAGTTTTGGCTGCTGGTTCCAGCAGGGGACTCGGGGATATA
CAGTGGCTGCACCAAATTGGAGGTGTGGGTTCTCCAACACAATTTGCTTCTGCCCCTGTCTTCTGCCAGCTG
GGTTTGGCCAGGATTTCTCCGTGTGGGGGCTACATGCGACCCCTCTCCCTCTCCCTGACTTTAGAGGCTGGTGC
TGTGTGCGGAGGAAGGTCAGGGCTCCTGAGCAGCAATAAAGGACCAGGAAGAGGCCTGAGGTGTAACAAAAAAA
AAAAAAAAAAAA

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FIGURE 5575

MAARKGRRRTCETGEPMEAESGDTSSSEGPAQVYLPGRGPPLREGEELVMDEEAYVLYHRAQTGAPCLSFDIVRDH
LGDNRTLPPLTLYLCAGTQAESAQSNRLMMLRMHNLHGTPPPSEGSDEEEEEDEEDEERKPQLELAMVPHYG
GINRVRVSWLGEEPVAGVWSEKQQVEVFALRRLQVVEEPQALAAFLRDEQAQMKPIFSAGHMGEGFALDWSPR
VTGRLLTGDCQKNIHLWTPTDGGSWHVDQRPVFGHTRSVEDLQWSPTENTVFASCSADASIRIWDIRAAPSKACM
LTTATAHDGDVNVISWSRREPFLLSGGDDGALKIWDLRQFKSGSPVATFKQHVPVTSVEWHPQDSGVFAASGAD
HQITQWDLAVERDPEAGDVEADPGLADLPQQLLFVHQGETELKELHWHWPQCPGLLVSTALSGETIFRTISV

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FIGURE 5576

CTAAAGGTCCCCTCCCCGGAGCGGAGCGCACCTAGGGTCCCTCTTCCGTCCCCCAGCCCAGCTACCCGTTCAGA
CCAGCAGCCTCGGGGGGCACCCCCGCCAGCCTGCCTCCCTCCCGCTCAGCCCTGCCAGGGTTCCCCAGCCATGA
ATCTCTTCCGATTCTCTGGGAGACCTCTCCACCTCCTCGCCATCATCTTGCTACTGCTCAAAATCTGGAAGTCCC
GTCGTGCGCCGGAATTTCAAGGAAGAGCCAGGTCTGTTTGCTGTGGTGTTCACTGCCCCGATATCTGGACCTCT
TCACCAACTACATCTCACTCTACAACACGTGTATGAAGGTGGTCTACATAGCCTGCTCCTTCACCACGGTCTGGT
TGATTTATAGCAAGTTCAAAGCTACTTACGATGGGAACCATGACACGTTCAAGAGTGGAGTTCCTGGTCGTTCCCA
CAGCCATTCTGGCGTTCCTGGTCAATCATGACTTCACCCCTCTGGAGATCCTCTGGACCTTCTCCATCTACCTGG
AGTCAGTGGCCATCTTGCCGCAGCTGTTTCATGGTGAGCAAGACCGGCGAGGCGGAGACCATCACCAGCCACTACT
TGTTTGCGCTAGGCGTTTACCGCACGCTCTATCTCTTCAACTGGATCTGGCGCTACCATTTCGAGGGCTTCTTCG
ACCTCATCGCCATTGTGGCAGGCCTGGTCCAGACAGTCTCTACTGCGATTTCTTCTACCTCTATATCACCAAAG
TCCTAAAGGGGAAGAAGTTGAGTTTGCCGGCATAGCCCCGGTCTCTCCATCTCTCTCCTCGGCAGCAGCGGGAG
GCAGAGGAAGGCGGCAGAAGATGAAGAGCTTTCCCATCCAGGGGTGACTTTTTTAAGAACCCACCTCTTGTGCTC
CCCATCCCGCCTCCTGCCGGGTTTCAGGGGGACAGTGGAGGATCCAGGTCTTGGGGAGCTCAGGACTTGGGCTGT
TTGTAGTTTTTTGCCTTTTAGACAAGAAAAAAAATCTTTCCACTCTTTAGTTTTTGATTCTGATGACTCGTTTT
TTCTTCTACTCTGTGGCCCCAAATTTTATAAAGTGA

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FIGURE 5577

MNLFRLFGLDLSHLLAIILLLLKIWKSRSCAGISGKSQVLFAVVFTARYLDLFTNYISLYNTCMKVVIACSF¹TTV
WLIYSKF²KATYDGNHDTFRVEFLVVPTAILAFLVNHDFTPLEILWTF³SIYLESVAILPQLFMVSKTGEAETITSH
YLFALGVYRTLYLFNWIWRYHFEGFFDLIAIVAGLVQTVLYCDFFLYITKVLKGKKLSLPA

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FIGURE 5578

AAGAAGTGGCGAAGTTACTTTTGAGGGTATTTGAGTAGCGGCGGTGTGTCAGGGGGCTAAAGAGGAGGACGAAGAA
AAGCAGAGCAAGGGAACCCAGGGCAACAGGAGTAGTTCACTCCGCGAGAGGGCCGTCCACGAGACCCCCGCGCGCA
GCCATGAGCCCCGCCCCCGCTGTTGCTTGGAGAGGGGCGGGACCTGGAGAGAGGCTGCTCCGTGACCCCCACCAT
GTCTCTCTCTACCACGAGTTCCCTGGATACCCCCCTGCCTGGAAATGGCCCCCCTCAGCCTGGCGCCCCCTTCTTC
TTCACCCACTGTAAAGGAGGAGGGTCCGGAGCCGTGGCCCGGGGGTCCGGACCTGATGTCCAGGCACTGATGA
GGCCAGCTCAGCCTGCAGCACAGACTGGGTTCATCCAGATCCCGAAGAGGAACAGAGCGCAAGCGAAAGAAGGG
CCCAGCCCCGAAGATGCTGGGCCACGAGCTTTGCCGTGTCTGTGGGGACAAGGCCCTCCGGCTTCCACTACAACGT
GTCAGCTGCGAAGGCTGCAAGGGCTTCTTCCGGCGCAGTGTGGTCCGTGGTGGGGCCAGGCGCTATGCCTGCCG
GGGTGGCGGAACCTGCCAGATGGACGCTTTCATGCGGCGCAAGTGCCAGCAGTGCCGGCTGCGCAAGTGCAAGGA
GGCAGGGATGAGGGAGCAGTGCGTCTTTCTGAAGAACAGATCCGGAAGAAGAAGATTTCGGAACAGCAGCAGGA
GTCACAGTCACAGTCGCAGTCACCTGTGGGGCCGCAGGGCAGCAGCAGCTCAGCCTCTGGGCCTGGGGCTTCCCC
TGGTGGATCTGAGGCAGGCAGCCAGGGCTCCGGGGAAGGCGAGGGTGTCCAGCTAACAGCGGCTCAAGAACTAAT
GATCCAGCAGTTGGTGGCGGCCCAACTGCAGTGCAACAAACGCTCCTTCTCCGACCAGCCCAAAGTCACGCCCTG
GCCCCTGGGCGCAGACCCCCAGTCCCGAGATGCCCGCCAGCAACGCTTTGCCCACTTCACGGAGCTGGCCATCAT
CTCAGTCCAGGAGATCGTGGACTTCGCTAAGCAAGTGCTTGGTTTCTGTCAGCTGGGCGGGAGGACAGATCGC
CCTCCTGAAGGCATCCACTATCGAGATCATGCTGCTAGAGACAGCCAGGCGCTACAACCACGAGACAGAGTGTAT
CACCTTCTTGAAGGACTTCACCTACAGCAAGGACGACTTCCACCGTGCAGGCCTGCAGGTGGAGTTTCATCAACCC
CATCTTCGAGTTCTCGCGGGCCATGCGGGCGGTGGGCCTGGACGACGCTGAGTACGCCCTGCTCATCGCCATCAA
CATCTTCTCGGCCGACCGGCCCAACGTGCAGGAGCCGGGCCGCTGGAGGCGTTGCAGCAGCCCTACGTGGAGGC
GCTGCTGTCTTACACGCGCATCAAGAGGCCGCAGGACCAGCTGCGCTTCCCGCGCATGCTCATGAAGCTGGTGAG
CCTGCGCACGCTGAGCTCTGTGCACTCGGAGCAGGTCTTCGCCTTGGCGCTCCAGGACAAGAAGCTGCCGCCTCT
GCTGTGCGAGATCTGGGACGTCCACGAGTGAGGGGCTGGCCACCCAGCCCCACAGCCTTGCCCTGACCACCCTCCA
GCAGATAGACGCCGGCACCCCTTCTCTTCTAGGGTGAAGGGGCCCTGGGCCGAGCCTGTAGACCTATCGGCT
CTCATCCCTTGGGATAAGCCCCAGTCCAGGTCCAGGAGGCTCCCTCCCTGCCAGCGAGTCTTCCAGAAGGGGTG
AAAGGGTTGCAGGTCCCGACCACTGACCCTTCCCGGTGCCCTCCCTCCCCAGCTTACACCTCAAGCCCAGCACG
CAGTGCACTTGAACAGAGGGAGGGGAGGACCCATGGCTCTCCCCCTAGCCCGGGAGACCAGGGCCTTCTCTT
CCTCTGCTTTTATTTAATAAAACTAAAAACAGAAA

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FIGURE 5579

MSSPTTSSLDTPLEPGNGPPQPGAPSSSPTVKEEGPEPWPGGPDVPGTDEASSACSTDWVIPDEEEPERKRKK
GPAPKMLGHELRCRVCGDKASGFHYNVLSCEGCKGFFRRSVVRGGARRYACRGGGTCQMDAFMRRKCQQCRLRKCK
EAGMREQCVLSEEQIRKKKIRKQQQESQSQSQSPVGPQGSSSSASGPGASPGGSEAGSQGSGE GEGVQLTAAQEL
MIQQLVAAQLQCNKRSFSDQPKVTPWPLGADPQSRDARQQRFAHFTELAIISVQEI VDFAKQVP GFLQLGREDQI
ALLKASTIEIMLLETARRYNHETECITFLKDFITYSKDDFHRAGLQVEFINPIFEFSRAMRRLGLDDAEYALLIAI
NIFSADRPNVQEPGRVEALQOPYVEALLSYTRIKRPQDQLRFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKLPP
LLSEIWDVHE

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FIGURE 5580

AGTCAGGGGTCACGGCGGCGTAGGCTGTGGCGGGAAACGCTGTTTGAAGCGGGATCGATGGCAAGCGGCGGCCAG
GCCAGGGCCCGGGGTGCCCCAAAGCGGGCCCGTGGGGGCTCTGGGATGATGATGATGCACCTTGCCATCCC
AATTCGAGGAGGACCTGGCACTGATGGAGGAGATGGAGGCAGAACACAGGCTGCAGGAGCAGGAGGAGGAGC
TGCAGTCAGTCCTGGAGGGGGTTGCAGACGGGCAGGTCCCACCATCAGCCATAGATCCTCGCTGGCTTCGGCCCCA
CACCACCAGCGCTGGACCCCCAGACAGAGCCCCCTCATCTTCCAACAGTTGGAGATTGACCATTATGTGGGGCCAG
CGCAGCCTGTGCCTGGGGGGGCCCCACCATCCCGCGGCTCCGTGCCTGTGCTCCGCGCCTTCGGGGTCACCGATG
AGGGGTTCTCTGTCTGTCTGCCACATCCACGGCTTCGCTCCCTACTTCTACACCCACAGCGCCCCCTGGTTTCGGGC
CCGAGCACATGGGTGACCTGCAACGGGAGCTGAACTTGGCCATCAGCCGGGACAGTCGCGGGGGGAGGGAGCTGA
CTGGGCGGCGCGTGTCTGGCTGTGGAAGTGTGCTCCCGAGAGAGCATGTTTGGGTACCACGGGCACGGCCCCCTCCC
CGTTCCTGCGCATCACCGTGGCGCTGCCGCGCCTCGTGGCCCCGGCCCGCGTCTCCTGGAACAGGGCATCCGTG
TGGCAGGCCTGGGCACGCCCAGCTTCGCGCCCTACGAGGCCAACGTCGACTTTGAGATCCGGTTCATGGTGGACA
CGGACATCGTCGGCTGCAACTGGCTGGAGCTCCCAGCTGGGAAATACGCCCTGAGGCTGAAGGAGAAGGCTACGC
AGTGCCAGCTGGAGGCGGACGTGCTGTGGTCTGACGTGGTCAGTCACCCACCGGAAGGGCCATGGCAGCGCATTG
CGCCCTTGCGCGTGTCTCAGCTTCGATATCGAGTGC CGCGGCCGCAAGGCATCTTCCCTGAGCCTGAGCGGGACC
CTGTCATCCAGATCTGCTCGCTGGGCTGCGCTGGGGGGAGCCGGAGCCCTTCTACGCTGGCGCTCACCTGCG
GGCCCTGTGCCCCATCTCTGGGTGCCAAGGTGCAGAGCTACGAGAAGGAGGAGGACCTGCTGCAGGCCTGGTCCA
CCTTCATCCGTATCATGAGCCCCGACGTGATCACCGGTTACAACATCCAGAACTTCGACCTTCCGTACCTCATCT
CTCGGGCCCAGACCTCAAGGTACAAACATTCCCTTTCCTGGGCCGTGTGGCCGGCCTTGTCTCAACATCCGGG
ACTCTTCATTCCAGTCCAAGCAGACGGGCGCGGGACACCAAGGTTGTCAGCATGGTGGGCCGCGTGCAGATGG
ACATGCTGCAGGTGCTGCTGCGGGAGTACAAGCTCCGCTCCACACGCTCAATGCCGTGAGCTTCCACTTCCTGG
GCGAGCAGAAGGAGGACGTGCAGCACAGCATCATACCGACTGCAGAAATGGGAACGACACACCCGCGCGCCG
TGGCTGTGTACTGCCTGAAGGATGCCTACCTGCCACTGCGCTGCTGGAGCGGCTCATGGTGTGGTGAACGCCG
TGGAGATGGCGAGGGTCACTGGCGTGCCCCCTCAGCTACCTGCTCAGTCGTGGCCAGCAGGTCAAAGTCGTATCCC
AGCTGTTGCGGCAGGCCATGCACGAGGGGCTGTGATGCCGTGGTGAAGTCAGAGGGCGCGGAGGACTACACGG
GAGCCACTGTCTCAGAGCCCTCAAAGGGTACTACGACGTCCCCATCGCCACCCTGGACTTCTCCTCGCTGTACC
CGTCCATCATGATGGCCACAACCTGTGTTACACCACGCTCCTTCGGCCCCGGGACTGCACAGAAACTGGGCTTGA
CTGAGGATCAGTTCATCAGGACCCCCACCGGGGACGAGTTTGTGAAGACCTCAGTGCAGGAAGGGGCTGCTGCCCC
AGATCCTGGAGAACCTGCTCAGTGCCCGGAAGAGGGCCAAGGCCGAGCTGGCCAAGGAGACAGACCCCTCCGGC
GCCAGGTCTGGATGGACGGCAGCTGGCGCTGAAGGTGAGCGCCAACCTCCGTATACGGCTTCACTGGCGCCCAGG
TGGGCAAGTTGCCGTGCCTGGAGATCTCACAGAGCGTCACGGGGTTCGGACGTGAGATGATCGAGAAAACCAAGC
AGCTGGTGGAGTCTAAGTACACAGTGGAGAATGGCTACAGCACCAGTGCCAAGGTGGTGTATGGTGACACTGACT
CCGTATGTGCCGATTGGCGGTGTCTCGGTGGCTGAGGCGATGGCCCTGGGGCGGGAGGCCGCGGACTGGGTGT
CAGGTCACTTCCCGTCGCCCATCCGGCTGGAGTTTGAGAAGGTCTACTTCCCATACTGCTTATCAGCAAGAAGC
GCTACGCGGGCCTGCTCTTCTCCTCCCGGCCCCGACGCCACGACCGCATGGACTGCAAGGGCCTGGAGGCCGTGC
GCAGGGACAACCTGCCCCCTCGTGGCCAACCTGGTCACTGCCTCACTGCGCCGCTGCTCATCGACCGAGACCCTG
AGGGCGCGGTGGCTCACGCACAGGACGTCACTCGGACCTGCTGTGCAACCGCATCGATATCTCCAGCTGGTCA
TCACCAAGGAGCTGACCCGCGCGGCCCTCCGACTATGCCGGCAAGCAGGCCACGTTGGAGCTGGCCGAGAGGATGA
GGAAGCGGGACCCCGGGAGTGCGCCAGCCTGGGCGACCGGTCCCCTACGTGATCATCAGTGCCGCCAAGGGTG
TGGCCGCTACATGAAGTCGGAGGACCCGCTGTTCTGTGCTGGAGCACAGCCTGCCATTGACACGCAGTACTACC
TGGAGCAGCAGCTGGCCAAGCCCCCTCCTGCGCATCTTCGAGCCCATCCTGGGCGAGGGCCGTGCCGAGGCTGTGC
TACTGCGGGGGGACCACACGCGCTGCAAGACGGTGTACGGGCAAGGTGGGCGGCCTCCTGGCCTTCGCCAAAC
GCCGCAACTGCTGCATTGGCTGCCGCACAGTGTCTAGCCACCAGGGAGCCGTGTGTGAGTTCTGCCAGCCCCGGG
AGTCTGAGCTGTATCAGAAGGAGGTATCCCATCTGAATGCCCTGGAGGAGCGCTTCTCGCGCCTCTGGACGCAGT
GCCAGCGCTGCCAGGGCAGCCTGCACGAGGACGTCACTGCAACAGCCGGGACTGCCCCATCTTCTACATGCGCA
AGAAGGTGCGGAAGGACCTGGAAGACCAGGAGCAGCTCCTGCGGCGCTTCGGACCCCTGGACCTGAGGCTGGT
GACCTTGCAAGCATCCCATGGGGCGGGGGCGGGACCAGGGAGAATTAATAAAGTTCTGGACTTTTGT

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FIGURE 5581

MDGKRRPGPGPGVPPKRARGGLWDDDDAPWPSQFEEDLALMEEMEAHRLQEQQEEEELQSVLEGVADGQVPPSAI
DPRWLRETPPALDPQTEPLIFQQLEIDHYVGPAQPVPGGPPPSRGSVPLRAFGVTDEGFSVCCHIHGFAPYFYT
PAPPGFGEHMGDILQREINLAISRDSRGGRELTGPAVLAVELCSRESMFGYHGHGSPFLRITVALPRLVAPARR
LLEQGIRVAGLGTPSFAPYEANVDFEIRFMVDTDIVGCNWLELPAGKYALRLKEKATQCQLEADVLSDDVVSHP
EGPWQRIAPLRVLSFDIECAGRKGIFPEPERDPVIQICSLGLRWGEPEPFLRLALTLRPCAPILGAKVQSYEKEE
DLLQAWSTFIRIMDPDVITGYNIQNFDLPYLISRAQTLKVQTFPFLGRVAGLCSNIRDSSFQSKQTGRDITKVVS
MVGRVQMDMLQVLLREYKLRSHTLNAVSFHFLGEQKEDVQHSIITDLQNGNDQTRRRLAVYCLKDAYLPLRLLER
LMVLVNAVEMARVTGVPLSYLLSRGQQVKVVSQLLRQAMHEGLLMPVVKSEGGEYTGATVIEPLKGYDVP IAT
LDFSSLYPSIMMAHNLCTTLLRPGTAQKLGLTEDQFIRTPTGDEFVKTSVRKGLLPQILENLLSARKRAKAEIA
KETDPLRRQVLDGRQLALKVSANSVYGFTGAQVGKLPCLISQSVTGFGRQMIETKQLVESKYTVENGYSTSAK
VVGDTDSVMCRFGVSSVAEAMALGREAADWVSGHFPSPIRLEFEKVYFPYLLISKRYAGLLFSSRPDAHDRMD
CKGLEAVRRDNCPLVANLVASLRRLIDRDPEGAVAHQDVISDLLCNRIDISQLVITKELTRAASDYAGKQAH
VELAERMKRDPGSAPSLGDRVPYVIIISAAKGVAAYMKSEDPFLVLEHSLPIDTQYYLEQQLAKPLLRIFEPILG
EGRAEAVLLRGDHTCKTVLTGKVGGLLAFKRRNCCIGCRTVLSHQGAVCEFCQPRESELYQKEVSHLNALEER
FSRLWTQCQRCQGS LHEDVICTSRDCPIFYMRKKVRKDLEDQEQLLRFGPPGPEAW

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FIGURE 5582

GCCTCCTTCCGTCTGTAACCTACCTAAAGACCCAAAGACCTGCGACATCCGTAGACCGCGCCCGCTATGCACAGCT
AAAGAGCACTCACCCCTCGCGCACCAGTCCCGGGCCCGGCAGCCGCTGCCCGGGCTCGACTGGGCGCTGCTACCG
CCATCAGCAAGAGCAGGAGCAGCCGGGTTGCCCCAGCGCTGGCTGCCGCCATCTCGGCTTCTTCCCACCAGCGAA
GGGACGGCTGTGAGCCAAGAGCCGCGGAGCACGCCGGGAGGAACAGGCCGCATCCTGACGCCCGTGCGCCTGCGC
TGGGCCCCGGCACCTGCGCACTGGCACCCGTCCGCACCTGGGGCCTGACGTCAGCAGGATCGGGGCCGCCCTTTG
GCCTGATCTCCAGGAGCCGCCCCCTCCAGGGACGTCATCACAAATCAGGAGCCCGCTCTTGTGTGACGTCATAAA
GCCCCGTCCGCATCATGACGTCACAGTGCGCGTAGTCCCGCCCCCTCGCTTTCTCCCTCTGCTCCTCCGTCCGCT
CCCGTCGGACGGGGACATTGCAATGAGGCGGGATCGCGGCCCTAAGCCGGCCCTGGGTGGAGCTGGCGAGGTGGA
ACCAGGTGGGATGGCAGCCTCTCCCACGGGCCGTCCAGACGGCTCCAACGCTACCTCCAGAGCGGCGAATTGGA
CCAGTTTCGGGACTTCCCCATCTTTGAGAGCAACTTCGTACAGTTCTGCCCCGACATCTATCCTGCCCCGACCTC
TGACCTCTGGCCCCAGGTGACTCGGTTGGGAGAAGTTGCCAACGAGGTCACCATGGGGGTGGCAGCCTCCAGTCC
AGCCCTGGAGCTCCCGGACCTATTGCTTCTGGCCGGCCCTGCCAAGGAGAACGGACACCTGCAACTCTTCGGGCT
GTTCCCTTGAAGTTCGTCCAGCTCTTTGTCCACGACAAAAGCCGGTGTGAGCTCGAGGTCAAGTTGAACACCAG
CCGCACCTTCTACTTGACGCTGCGGGCCCCACTCAAGACCCGAGACCGAGAGTTGCGCCAGTGGGTGCGGCTGCT
CTACCGCCTGCGCTTCTCTCTGCTTCTGCTGTGCCCTTCACGCAGGAGTAAGAGCCCCAAGGCGTGGAAGCCAG
ACTTGACCCCAAGACCTCTGAACTCTGGGGACTCTGAGTCTTCAGCATCCTTCAAGGTCACCGAATGACCAGAG
ATCAAAGTACCTTGCTCAGGGCCGGGCAGATGAGATATTAAAGTTAATAAAGGTCAGTCCATTAAGAACCAA

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FIGURE 5583

MGFPLWPDLOEPPPPGTSSQIRSPLLCDVIKPAPHHDVTVRVVPPPRFLPLLLLRPLPSDGD IAMRRDRGPKPALG
GAGEVEPGGMAASPTGRPRRLQRYLQSGEFDQFRDFPIFESNFVQFCPDIYPAPTS DLWPQVTRLGEVANEVTMG
VAASSPALELPDLLLLLAGPAKENHQLFLGLFPLKFVQLFVHDKSRCQLEVKLNTSRTFY LQLRAPLKTRDREFG
QWVRLLYRLRFLSASAVPFTQE

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FIGURE 5584

GCCGTCCCTTCGCTGGTGGGAAGAAGCCGAGATGGCGGCAGCCAGCGCTGGGGCAACCCGGCTGCTCCTGCTCTT
GCTGATGGCGGTAGCAGCGCCAGTCGAGCCCGGGGAGCGGCTGCCGGGCCGGGACTGGTGCGCGAGGGGCTGG
GGCGGAAGGTCGAGAGGGCGAGGCCTGTGGCACGGTGGGGCTGCTGCTGGAGCACTCATTGAGATCGATGACAG
TGCCAACCTCCGGAAGCGGGGCTCACTGCTCTGGAACCAGCAGGATGGTACCTTGTCCCTGTACAGCGGCAGCT
CAGCGAGGAGGAGCGGGGCCGACTCCGGGATGTGGCAGCCCTGAATGGCCTGTACCGGGTCCGGATCCCAAGGCC
ACCCGGGGCCCTGGATGGCCTGGAAGCTGGTGGCTATGTCTCCTCCTTTGTCCCTGCGTGCTCCCTGGTGAGTC
GCACCTGTGCGGACCAGCTGACCCTGCACGTGGATGTGGCCGGCAACGTGGTGGGCGTGTGCGTGGTGACGCACCC
CGGGGGCTGCCGGGGCCATGAGGTGGAGGACGTGGACCTGGAGCTGTTCAACACCTCGGTGCAGCTGCAGCCGCC
CACCACAGCCCCAGCCCTGAGACGGCGGCCTTCATTGAGCGCCTGGAGATGGAACAGGCCAGAAAGGCCAAGAAC
CCCCAGGAGCAGAAGTCCTTCTTCGCCAAATACTGGATGTACATCATTCCCGTCGTCTTCTCATGATGTCA
GGAGCGCCAGACACCGGGGGCCAGGGTGGGGGTGGGGGTGGGGGTGGTGGTGGGGGTAGTGGCCGGTGAGGGCCC
AGGCTGGTCAGCGTCCCGTCTTGACACCCAGGGGCCTCCCTTTCTGCTGGAGTCCCTGTGTCTCAGCCATCC
CAAGAAGGGTTTGCTGGTCCCTCCTTTCCCCCGTCCACGAGGCCACCTGGGCCAGCCCTTGTCTCTGCCTT
CTGCTGGCAGAGGAGCAGCTGGACTGGGGCCTTTGGCACAGCAGCCGGTGTCTCCTGCGCCCGCCTCCCCATGG
CCCCATGCAGCCCCAGGGGCTTCCCCCTGCCATGGAGTAGAGCCCGAGATCCTGGCCACTATGCCAGTTCTGA
CCTCGCATCCCCCTACCCCGAGCCCATGCAGTCTGGGAACATGCCGCCTTCTCTCCAGCCTCTGTGCCTTTGTTT
CAGGTGGTCTCACCCCTCCTGTCCCTGGCTGGGCTAGGTGGTCCCTGTCCAGGCTCCTGCAGCGCCCCCTCACTTT
GACACTGGACTAGGATGCAGCCTCCCTTCTGTGTCCCTTGAGGGTACCCTGGGTCCCCTCATCAGGGGCAGAGG
CATGAAAGAGTCGGGGCTGGATGGCCGGGGGCTTCTGGGCCCGACGCCTAGTGCAGCCCCCTGGGGTTCGTGGTTTG
ACATTTGTCTGCCTGGTGCAAACAAGGAATCCTTGCTTTAAGGTGACAGGCCCTCCACAGGCTTCCAGACTTGA
AGGAAAAGGTTTAAGAAAGAAAACAAAACCAACAGTTAGTGGAGTCAAAGCCCAGACACTGTAAATAGAACCCCC
TCCACCACCCCCCGCCGCCAGCATCCTACCTGGACTGCGGTGCTACGAGGGCCTGCGGGCCTTTGCTGTGTGCC
ACCTCCTCTGTAAGTCTATTTAAAAACATCGACGATACATTGAAATGTGTGAACGTTTGTAAAGCTACAGCTTC
CAGCAGCCAAAAGCAACTGTTGTTTTGGCAAGACGGTCCTGATGTACAAGCTTGATTGAAATTCAGTCACTT
GATACGTTATTAGAAACCAAGGAATGGCTGTCCCATCCTCATGTGGCTGTGTGGAGCTCAGCTGTGTTGTGT
GGCAGTTTATTAACTGTCCCCAGATCGACACGC

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FIGURE 5585

MAASAGATRLLLLLLMAVAAPSRARGSGCRAGTGARGAGAEGREGEACGTVGLLLEHSFEIDDSANFRKRGSLL
WNQQDGTLSLSQRQLSEEERGRIRDVAALNGLYRVRIIPRRPGALDGLEAGGYVSSFVPACSLVESHLSDDLTLHV
DVAGNVVGVSVVTHPGGCRGHEVEDVDLELFNTSVQLQPPTTAPGPETAAFIERLEMEQAQKAKNPQEQKSFFAK
YWMYIIPVVLEFLMMSGAPDTGGQGWGWGWGWGW

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FIGURE 5586

ATGGGGGTGGGGGGATGCGGGCTGGCAGCGGGAGAGCTGGGGACAGATGCGGAGCCCTCCCTTCACCTGCCCCACA
CCTGTACCTCCACGGTTGCTTGTCTGCCACCTTACCTCTCTCTCCCTCAGATTCTCCCATGAGTCTGACTCAA
GTCTCTGAAGCTGCTGTGAGGCCCCACAGGGCCTGGACAGGCCTCTCCCCCTTCTCTCCCCACCCACAGCCCC
CCAGCGTCCACGCGGAGCATGAACATTGAGGATGGCGCGTGCCCGCGGCTCCCCGTGCCCCCGCTGCCGCCCGC
AACCAGGCCAGCCGGGTGATCTGCACACGGAGAGACCTGGCCGAGGTCCCAGCCAGCATCCCGGTCAACACGCGG
TACCTGAACCTGCAAGAGAACGGCATCCAGGGTGGGAGGACTTGGCTGCTCCCATCTGACCATCCTGAGAGCCAG
ATTCAGGGAAGAAAAGGGACCTCTCAGGGGAGCAGTCCCTTCTTGGTGGCTGTGGGGCAAGGGCCAGCGAAGGGG
TCCAGAAACGGGTCTTGCACCGCCCCCTGCCCCACCCAGAGACATGGATGGAGGGTGTGTTCTCGTCCAGTCCACG
AGAGTGGATGCTTCTGGGTCACTGCGTGCTGAGCGCCGAGCAGCCTCAGGCTGTCCGCTGTGGCCACGCTGTTG
TCACGGTCTCTGTCCAGAGGCACCAAGGAGACTTGGAAAACACTGTGGGCTGGAGCCCCAGGTGCACGCTCCCC
GGGACCGGCAGCCCTGCTGAGTCACTTGACTTCACCGAGCCTTGGTCTCCTGTCTCTGAAATGACGTGTGATGCT
CACCTCCAGGGCTGCCGGGGGAGTCAGCAGGAGCCTGGGGTGCCGAGAGGCTCCGGGAGCTGCAGGCAGGAGCG
ATCAGTGATGACCGGGACCTCCTCCTCCTGTTACTATTATTGATGTTATTATTATTAATAGAAATAGCAACCGAG
TGCCTGCTTTATCAATCACCAGCATTTCCAGGGAGGTGATAAGCTGCGTTTGGGCATGGTACAAGTTTCTCAAC
GCCAACGATAACGATAACAATGAGAATGACGACGTGCTGAGCACCCTGAACACTGGGACCTCATCTCCTCTCCC
TCACCTCTGAAGTGCTTTTCATCATCCTCCTCGTGGTGATCCGGACGGACACGTTCAAGCACCTGCGGCACCTG
GAGATTCTGCAGCTGAGCAAGAACCTGGTGCGCAAGATCGAGGTGGCGCCTTCAACGGGCTGCCAGCCTCAAC
ACGCTGGAGCTTTTGGACAACCGGCTGACCACGGTGCCACGCAGGCCTTCGAGTACCTGTCCAAGCTGCGGGAG
CTCTGGCTGCGGAACAACCCCATCGAGAGCATCCCTCCTACGCCTTCAACCGCTGCCCTCGCTGCGGCGCCTG
GACCTGGGCGAGCTGCAACCTCAAGGACATCCCCAACCTGACGGCCCTGGTGCGCTGGAGGAGCTGGAGCTGTG
AACCTGGGCATGTGCAACCTCAAGGACATCCCCAACCTGACGGCCCTGGTGCGCTGGAGGAGCTGGAGCTGTG
GGCAACCGGCTGGACCTGATCCGCCCCGGGCTCCTTCCAGGGTCTCACCAGCTGCGCAAGCTGTGGCTCATGCAC
GCCCAGGTAGCCACCATCGAGCGCAACGCCTTCGACGACCTCAAGTCTGCTGGAGGAGCTCAACCTGTCCACAAC
AACCTGATGTGCTGCCCCACGACCTCTTACGCCCCCTGCACCGCCTCGAGCGCTGCACCTCAACCACAACCCC
TGGCATTGCAACTGCGACGTGCTCTGGCTGAGCTGGTGGCTCAAGGAGACGGTGCCCAGCAACACGACGTGCTGC
GCCCCTGTGTCATGCGCCCGCCGCTCAAGGGGCGCTACATTGGGGAGCTGGACCACTGCGATTTACCTGCTAT
GCGCCCGTTCATGCTGGAGCCGCCCACGGACCTCAACGTACCGAGGGCATGGCTGCCGAGCTCAAATGCCGCACG
GGCACCTCCATGACCTCCGTCAACTGGCTGACGCCAACGGCACCTCATGACCCACGGCTCCTACCGCGTGCGC
ATCTCCGTCTGTCATGACGGCAGCTTAACCTTACCAACGTACCGTGACGACACGGGCCAGTACACTGGTGGT
GTTGGAGGGGGCAGTGGCGGCTACACCTACTTACACGCTGACCGTGAGAGACCTGGAGACGACGCCGGAGAG
GAGGCCCTGCAGCCGCGGGGGACGGAGAAGGAACCGCCAGGGGCCACGACAGACGGTGCTTGGGGTGGGGGCCGG
CCTGGGGACGCGCGCGGCCCTGCCTCGTCTTCTACCACGGCACCCGCCCGCGCTCCTCGCGGCCACGGAGAAG
GCGTTCACGGTGCCCATCACGGATGTGACGGAGAACGCCCTCAAGGACCTGGACGACGTGATGAAGACCACAAA
ATCATCATCGGCTGCTTCGTGGCCATCACGTTTCATGGCCGCGGTGATGCTCGTGGCCTTCTACAAGCTGCGCAAG
CAGCACCAGCTCCACAAGCACCACGGGCCACGCGCACCGTGAGATCATCAACGTGGAGGACGAGCTGCCGCC
GCCTCGGCCGTGTCCGTGGCCGCCGCGGCCGCGTGGCCAGTGGGGGTGGTGTGGGCGGGGACAGCCACCTGGCC
CTGCCCGCCCTGGAGCGAGACCACCTCAACCACCACCTACGTGGCTGCCGCTTCAAGGCGCACTACAGCAGC
AACCCAGCGGCGGGGGCTGCGGGGGCAAGGCCGCTGGCCTCAACTCCATCCACGAACCTCTGCTCTTCAAG
AGCGGCTCCAAGGAGAACGTGCAAGAGACGCAGATCTGA

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FIGURE 5587

MAAAGLEAGVGAVGSHRPGCVPRPQIQALRFGPALWLRGCGLDHRQGLKSPPASTRSMNIEDGACPRLPVPPAAA
RNQASRVICTRRDLAEVPASIPVNTRYLNLQENGIQGGRTWLLPSDHPESQIQGRKSTQSSSPFLVAVGQGP
GSRNGFLHRPLPHPETWMEGVFVQSTRVDASGSLRAERRAASGCPPVATLLSRSSVQRHQGDLENTVGWSPRCTL
PGTGSPAESLDFTEPWSPVSEMTCD AHLQGCRGSQQEPGVPQRLRELQAGAI SDDRDL LLLLLLLLMLLLL IEIAT
ECLLYQSPAFPREVI SCVWAWYKFLNANDNDNNENDDDLSTPEHWDLI SSPSPSEVLFI ILLV VIRTDTFKHLRH
LEILQLSKNLVRKIEVGA FNGLPSLNTLELFDNRLTTVPTQAFEYLSKLRELWLRNNPIESIPSYAFNRVPSLRR
LDLGELKRLEYISEAAFEGLVNLRYLNLGMCNLKDIPNLTA LVRLEELSLGNRLDLIRPGSFQGLTSLRKLWLM
HAQVATIERNAFDDLKSLEELNLSHNNIMSLPHDLFTPLHRLERVHLNHNPNWHCNC DVLWLSWWLKETVPSNTTC
CARCHAPAGLKGRIYIGELDQSHFTCYAPVIVEPPTDLNVTEGMAAELKCRGTSMTSVNWLTPNGTLMTHGSYRV
RISVLHDGTLNFTNVTVDITGQYTG GVG GSGGYTYFTT VTVETLETQPGEEALQPRGTEKEPPGPTTDGVWGGG
RPGDAAGPASSSTTAPAPRSSRPTAKAFTVPTDVTENALKDLDVMKTTKIIIGCFVAITFMAAVMLVAFYKLR
KQHQLHKHHGPTRTVEI INVEDELPAASAVSVAAAAAVASGGGVGGD SHLALPALERDHLNHHHYVAAAFKAHYS
SNPSGGGCGGKGPPGLNSIHEPLLKSGSKENVOETOI

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FIGURE 5588

CACTCATTAAAGAACAGAGGAGGCTGCCTGTTACTCCTGGTGTTCATCCCTCCAGACACTCTGCTGTTTCCTGCC
TAGGCGTGGCTGCAGCCATGGCTAGGAAAGCGCTGCCACCCACCCACCTGGGCCAGAGCTGGTTCTGCTCCTGCT
GCAGGGACACTGAGCTGGCTATCTCGGCGCTTCGGGCAAGAACTGCAACAGGCTCTCCTGGGTCTGCAGGTGTA
CAGCCGGGCCCTGCCTTGTGCCTCAGCTCTCGAGAGCTGCTGCTGCCGGGTGACCTGATCCAACCTGATAAGGT
GCCATCTTCAGCTACCACTGCAAGGCCCTGAGGGCAACAGCAGCACGGCACTGCCACCCGGCTGCTGATGGCCT
GGTGGCAGCTGGGAGTCCTCCCGGCACTTCGAGGGCACTGAGCCACCCTTCCAGCCCCAGCCCACCATGGACAGG
GGTATCCAGCTTCCTCCTCAACCTCGTCCTCTGCCCCTGAGCCAGTGACGCCCAAGGACATGCCTGTTACCCAGG
TCCTGTACCAGCACTAGCTGGTCAAGGGCATGACAGTGCTGGAGGCCGTCTTGGAGATCCAGGCCATCACTGGCA
GCAGGCTGCTCTCCATGGTGCCAGGGCCCGCCAGGCCACCAGGCTCATGCTGGGACCCAACCCAGTGACAAGGA
CTTGGCTGCTGAGCCACACACCCAGGAGAAGGTGGATAAGTGGGCTACCAAGGGCTTCCTGCAGGCTAGGGGAGG
AGCCACCCCGCTTCCTATTGTGACCAGGCCTATGGGGAGGAGCTGTCCATACGCCACCGTGAGACCTGGGCCT
GGCTCTCAAGGACAGACACCGCTGGCCTGGTGCTCCAGGGGTGAAGCAGGCCAGAATCCTGGGGGAGCTGCTCC
TGGTTTGAGCTGCATTCAAGGAAGTGCGGGACATGGTAGGGGAGGCCAAAAAGCCTTGGGCACTACCCCTCCCTGTGG
AGCTGTTCCGGTGTCGGTCGAGCTAGCCACACCTGACACCATGTTCAAGGGTACCGGAAGAGAAGGGTGTCTGCC
CCCAACCTCCCCTGTGGGTGTCACTGGCCAGATGTCATGAGGGAAGCAGGCCTTGTGAGTGGACACTGACCATGA
GTCCCTGGGGGGAGTGATCCCCCAGGCATCGTGTGCCATGTTGCACTTCTGCCCAGGCAGCAGGGTGGGTGGGTA
CCATGGGTGCCCCACCCCTCCACCACATGGGGCCCCAAAGCACTGCAGGCCAAGCAGGGCAACCCACACCCCTTGA
CATAAAAGCATCTTGAAGCTTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5589

MTVLEAVLEIQAITGSRLLSMVFGPARPPGSCWDPTQCTRTWLLSHTPRRRWISGLPRASCRLGEEPPPLPYCDQ
AYGEELSIRHRETWAWLSRTDTAWPGAPGVKQARILGELLV

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FIGURE 5590

AGCCCCAAGCTTACCACCTGCACCCGGAGAGCTGTGTGTACCAATGTGGGTCCCGGTTGTCTTCCTCACCCCTGTC
CGTGACGTGGATTGGTGTCTGCACCCCTCATCCTGTCTCGGATTGTGGGAGGCTGGGAGTGCGAGAAGCATTCCCA
ACCTGGCAGGTGCTTGTGGCCTCTCGTGGCAGGGCAGTCTGCGGCGGTGTTCTGGTGCACCCCCAGTGGGTCTT
CACAGCTGCCACTGCATCAGGAACAAAAGCGTGATCTTGCTGGGTGCGCACAGCCTGTTTCATCCTGAAGACAC
AGGCCAGGTATTTAGGTGAGCCACAGCTTCCCACACCCGCTCTACGATATGAGCCTCCTGAAGAATCGATTCTT
CAGGCCAGGTGATGACTCCAGCCACGACCTCATGTCTGCTCCGCCTGTCAGAGCCTGCCGAGCTCACGGATGCTGT
GAAGGTCATGGACCTGCCCACCCAGGAGCCAGCACTGGGGACCACCTGCTACGCCTCAGGCTGGGGCAGCATTGA
ACCAGAGGAGTTCTTGACCCCAAAGAACTTCAGTGTGTGGACCTCCATGTTATTTCCAATGACGTGTGTGCGCA
AGTTCACCCCTCAGAAGGTGACCAAGTTCATGCTGTGTGCTGGACGCTGGACAGGGGGCAAAAGCACCTGCTCGGG
TGATTCTGGGGGCCCCTTGTCTGTAATGGTGTGCTTCAAGGTATCACGTCATGGGGCAGTGAACCATGTGCCCT
GCCCAGAAAGGCCTTCCCTGTACACCAAGGTGGTGCATTACCGGAAGTGGATCAAGGACACCATCGTGGCCAACCC
CTGAGCACCCCTATCAACCCCTATTGTAGTAACTTGGAACCTTGGAATGACCAGGCCAAGACTCAAGCCTCC
CCAGTTCTACTGACCTTTGTCCTTAGGTGTGAGGTCCAGGGTTGCTAGGAAAAGAAATCAGCAGACACAGGTGTA
GACCAGAGTGTTTCTTAAATGGTGTAAATTTGTCCTCTCTGTGTCCTGGGGAATACTGGCCATGCCTGGAGACAT
ATCACTCAATTTCTCTGAGGACACAGATAGGATGGGGTGTCTGTGTTATTTGTGGGGTACAGAGATGAAAGAGGG
GTGGGATCCACACTGAGAGAGTGAGAGGTGACATGTGCTGGACACTGTCCATGAAGCACTGAGCAGAAGCTGGAG
GCACAACGCACCAGACACTCACAGCAAGGATGGAGCTGAAAACATAACCCACTCTGTCTTGGAGGCACTGGGAAG
CCTAGAGAAGGCTGTGAGCCAAGGAGGGAGGGTCTTCCTTTGGCATGGGATGGGGATGAAGTAAGGAGAGGGACT
GGACCCCTGGAAGCTGATTCACTATGGGGGGAGGTGATTGAAGTCCTCCAGACAACCCCTCAGATTTGATGATT
TCCTAGTAGAACTCACAGAAATAAGAGCTGTTATACTGTG

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FIGURE 5591

MWVPVVFLLSVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWVLTAAHCIRNKS VILL
GRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLRPGDDSSHDLMLLRLSEPAELTDAVKVMDLPTQEPALGT
TCYASGWGSIEPEEFLTPKKLQCVDLHVISNDVCAQVHPQVTKFMLCAGRWTGGKSTCSGDSGGPLVCNGVLQG
ITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANP

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FIGURE 5592

GGCGGACAAAACCCGATTGTTCTGGGCCCTTTCCCCATCGCGCCTGGGCCTGCTCCCCAGCCCGGGCAGGGGC
GGGGGCCAGTGTGGTGACACACGCTGTAGCTGTCTCCCCGGCTGGCTGGCTCGCTCTCTCTCTGGGGACACAGAGG
TCGGCAGGCAGCACACAGAGGGACCTACGGGCAGCTGTTCTTTCCCCGACTCAAGAATCCCCGGAGGCCCGGAG
GCCTGCAGCAGGAGCGGCCATGAAGAAGCTGATGGTGGTGCTGAGTCTGATTGCTGCAGCCTGGGCAGAGGAGCA
GAATAAGTTGGTGCATGGCGGACCCTGCGACAAGACATCTCACCCCTACCAAGCTGCCCTCTACACCTCGGGCCA
CTTGCTCTGTGGTGGGGTCCTTATCCATCCACTGTGGGTCTCACAGCTGCCCACTGCAAAAAACCGAATCTTCA
GGTCTTCCTGGGGAAGCATAACCTTCGGCAAAGGGAGAGTTCCCAGGAGCAGAGTTCTGTTGTCCGGGCTGTGAT
CCACCCTGACTATGATGCCGCCAGCCATGACCAGGACATCATGCTGTTGCGCCTGGCACGCCAGCCAAACTCTC
TGAACATCATCCAGCCCCCTTCCCCTGGAGAGGGGACTGCTCAGCCAACACCACCAGCTGCCACATCCTGGGCTGGGG
CAAGACAGCAGATGGTGATTTCCCTGACACCATCCAGTGTGCATACATCCACCTGGTGTCCCGTGAGGAGTGTGA
GCATGCCTACCCTGGCCAGATCACCCAGAACATGTTGTGTGCTGGGGATGAGAAGTACGGGAAGGATTCTGCCA
GGGTGATTCTGGGGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTTGTGTCAAGGGTAACATCCCCCTGTGG
ATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAAGTGGATCCAAAAAACCATTCAGGCCAA
GTGACCCTGACATGTGACATCTACCTCCCGACCTACCACCCCACTGGCTGGTTCAGAACGTCTCTCACCTAGAC
CTTGCCCTCCCCCTCCTCTCTGCCCAGCTCTGACCCTGATGCTTAATAAACGCAGCGACGTGAGGGTCTTGATTCT
CCCTGGTTTTACCCCAGCTCCATCCTTGCATCACTGGGGAGGACGTGATGAGTGAGGACTTGGGTCTCTGGTCTT
ACCCCCACCACTAAGAGAATACAGGAAAATCCCTTCTAGGCATCTCCTCTCCCCAACCCCTCCACACGTTTGATT
TCTTCCTGCAGAGGCCCCAGCCACGTGTCTGGAATCCCAGCTCCGCTGCTTACTGTCCGGTGTCCCCCTTGGGATGTA
CCTTTCTTCACTGCAGATTTCTCACCTGTAAGATGAAGATAAGGATGATACAGTCTCCATAAGGCAGTGGCTGTT
GGAAAGATTTAAGGTTTCACACCTATGACATACATGGAATAGCACCTGGGCCACCATGCACCTCAATAAAGAATGA
ATTTT

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FIGURE 5593

CACCCTGTAAGTGGCTGCGGCGGGAAGATGGCGGAGCTGCGCGTGCTCGTAGCTGTCAAGAGGGTCATCGACTAC
GCCGTGAAGATCCGAGTGAAGCCTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCACTCCATGAACCCCTTC
TGTGAGATCGCGGTGGAGGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAGGTCATCGCCGTCAGCTGT
GGGCCTGCACAGTGCCAGGAGACGATTTCGTACCGCCCTGGCCATGGGTGCAGACCGAGGTATCCACGTGGAGGTG
CCCCAGCAGAAGCAGAACGCTTGGGTCCCCTGCAGGTGGCTCGGGTCCTGGCCAAGCTGGCAGAGAAGGAGAAG
GTGGACCTGGTGCTGCTGGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGATT
CTTGACTGGCCACAGGGCACATTTCGCCTCCCAGGTGACGCTGGAGGGGGACAAGTTGAAAGTGGAGCGGGAGATC
GATGGGGGCCTGGAGACCCTGCGCCTGAAGCTGCCAGCTGTGGTGACAGCTGACCTGAGGCTCAACGAGCCCCGC
TACGCCACGCTGCCCAACATCATGAAAGCCAAGAAGAAGAAGATCGAGGTGATCAAGCCTGGGGACCTGGGTGTG
GACCTGACCTCCAAGCTCTCTGTGATCAGTGTGGAGGACCCGCCCCAGCGCACGGCCGGCGTCAAGGTGGAGACC
ACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATTTGAGCCCCCTCCCAGAGATGGCAATAAACTGAC
TCTCAACATCAAAAAAAAAAAAAAAAAA

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FIGURE 5594

MAELRVLVAVKRVIDYAVKIRVKPDRTGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKEVIAVSCGPAQCQETI
RTALAMGADRGHVEVPPAEAERLGPLQVARVLAKLAEKEKVDLVLLGKQAIDDDCNQTGQMTAGFLDWPQGTFA
SQVTLEGDKLKVEREIDGGLETLRRLKLPVVTTADLRRLNEPRYATLPNIMKAKKKKIEVIKPGDLGVDLTSKLSVI
SVEDPPQRTAGVKVETTEDLVAKLKEIGRI

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FIGURE 5595

GTCCCGCCACACCGCCCGTCCCGCTTAGCCACCTGGCCCCGCCCCTACCGCATCAGCCTTGCCCCACCCCTT
CAGGGTTCCCAAATCTGGCCAGTCTTTCTGCCCTTTCCCTTGCGGTCTTCCCTTGTCATACCCGTTTCCCTGGG
ATCGTACGGACCTTAAAAATACCAGCAACAGCCCTTCGCCCAAGACCATGTAGACAACCCCACTCAGGTCGTG
TTCCTGCTTAAACCCCTTACTGACCTCTGCTTCGGCCCTGCGCCAAGTCGAGTCCTCACTCGGGAGGAGGAGGCA
CTGCAGACAGACAGTGGGGAGAAGGTGAAAGAGTTGGAGCCGACAGCCGACAGAGCTACGTGGTGCTGGGACTGAA
AGAGAGGGAGAGAGGGCAGTGGGTGACAAGCAGAGTAGAGGGAGAACCACAGCAGGGAGGAAGCCTAGGGAGTTG
GGGTGCTAGAGAGTGGGAACAAAGGAGGTGTAACAGATTTGACTTGTAAGAATTAATTATATTGACTGAGAGA
GAAGCCAGAGAGGAAGAAGAGGAAAGAAAAGGAGTCAGGGATGGCTCTTACACAGGGACCTTTGACATTCAGG
GATGTAGCCATAGAATCTCTCAGGAGGAGTGGAAATCCCTGGACCCTGTGCAGAAAGCTTTGTACTGGGATGTG
ATGTTGGAGAACTACAGGAACCTGGTCTTCTGGGTATCCTTCCTAAATGTATGACCAAGGAATTACCACCAATA
GGGAACAGTAATACAGGAGAAAAATGCCAAACAGTGACGCTGGAAAGACATGAATGTTATGATGTTGAAAAATTT
TACTTAAGGGAAATCCAGAAAAATCTACAGGACCTTGAGTTTCAATGGAAAGATGGTGAAATAAATTATAAAGAA
GTGCCAATGACCTATAAAAAACAATCTTAATGGTAAAAGAGGTCAACATAGTCAAGAGGATGTAGAAAACAAAATGT
ATTGAAATCAGCTTACATTAAGCTTTCAGTCACGTCTGACTGAACTGCAGAAATTTCAAAGTGAAGGGAAAAAT
TATGAGTGTAAACCAATCTGAGAAGACAGTTAATAACAGTTCCCTAGTTTACCACCTTCAAAGAATCTTCTCTAGT
GTCCAAACCAACATTTCTAAAAAATATGAGAAATGAGTTTTTGACAGCTGTCATTACCCACCCAACTTGAGAAAAA
CACATTAGGGAAAAACCTTATATGTGTAAAGGTGTGGCAAAGCCTTTAGAGTGTCTTCAAGTCTTATTAACCAT
CAGATGGTACATACTACAGAGAAACCTTACAAATGCAATGAATGTGGCAAAGCCTTTCATCGGGGCTCACTACTA
ACTATACATCAGATAGTCCATACAAAGGGGGAAGCCATATCAATGTGGTGTATGTGGCAAGATCTTCAGACAAAAT
TCAGATCTTGTAATCACCAGGAGAAGTCACACTGGAGAGAAACCGTACAAATGTAATGAATGTGGCAAGTCCCTT
AGTCAAAGTTATAACCTTGCAATACATCAGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAGTGTGGG
AAAACCTTCAAACAAGGCTCATGCCTCACTACATCAGATAATCCATACAGGAGAGAAACCATATCAATGTGAT
ATATGTGGCAAGGTCTTCAGGCAGAATCTTAATCTTGTAATCACCAGAGAATCCCACTGGAGAGAAACCATAC
AAATGCAACATATGTGGAAAGTCTTTAGTCAAAGTTCCAACCTGGCAACTCATCAGACAGTTCATAGTGGAAC
AAACCTTACAAATGTGATGAGTGTGGCAAACCTTTAAACGGAGCTCCAGCCTCACTACATCAGATAATCCAT
ACAGGAGAGAAACCATATACATGTGATGTATGCGACAAGGTCTTCAGTCAACGTTCACTTCAAGGCACAG
AGAAGTCATACTGGAGAGAAACCTTACAAATGCAATGAATGTGGCAAGGTCTTCAGTCAAGCTTCAAGGCACAG
GGGCATCGGAGAATTCATACTGGAGAGAAACCTTACAAATGTGATAAATGTGGTAAAGCCTTTAAACAGGGCTCA
TTACTCACTCGACATAAGATAATTCATACCAGAGAGAAACGTTACCAATGCGGTGAATGTGGAAAGGTCTTTAGT
GAAAAATTCATGCCTTGTAAGACATTTAAGAATTCATACTGGGGAGCAACCTTACAAATGTAATGTGTGGCAAG
GTCTTCAATTACAGTGGAAACCTTTCAATTACATAAGAGAATACATACGGGAGAGAAACCTTTCCAATGTAATGAA
TGTGGCACAGTCTTCAGGAACCTACTCATGCCTAGCACGTCTAAGAATTCATACTGGGCAGAAACCTTACAAA
TGTAATGTGTGTGGCAAGGTCTTCAATGACAGTGGAAACCTTTCAATCATAAGAGAATTCATACTGGAGAGAAG
CCGTTTCAATGTAACGAATGCGGCAAGGTTTTAGTTACTACTCATGCCTAGCACGTCTCGGAAAATTCATACC
GGAGAGAAACCTTACAAATGTAATGATTGTGGCAAAGCCTTACTCAGCGTTCAAGCCTCACTAAACATCTGATA
ATTCATACTGGAGAGAAACCTTACAATTGTAATGAGTTTGGAGGGGCATTTATCCAAAAGTTCAAAACTTGCAAGA
TATCACAGAAATCCTACTGGGGAGAAACACACAAATGTAGCCATTGTGGTAGAACTTTTAGTCATATAACAGGC
CTGACGTACCATCAGAGAAGGCATACTGGAGAGATGCCATACAAATGTATTGAATGTGGCCAGGTCTTTAATTCC
ACTTCGAACCTTGCAAGGCATCGGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAATGTGGCAAGGTC
TTTCGTCAATCAACACTAGCACGTCTATCGGAGTATTCTACTGGAGAGAAACCTTACGTGTGTAATGAGTGT
GGCAAAGCCTTTAGAGTGCCTTCAATCTGGTTAATCATCAGAAAAATGCATACTGGGGACAAACCTTACAAATGT
AATGAATGTGGTAAAGCTTTTATTGAAAGGTCAAAGCTGGTGTACCATCAAAGAAATCACACTGGAGAGAAGCCA
TACAAATGTATTGAATGTGGCAAGGCCTTTGGGCGGTTTTCTTGCCCTCAACAAACACCAAATGATTCTATTCTGGA
GAAAAACCTTATAATGTAATGAGTGTGGCAAATCTTTCAATAGTCGCTCAGGCCTCACTAAACATCAGACAAAA
CATACTGCAGAGAGTCTTAAACAAAATTCATGTGGAAAAGCCTTTAGATGTTCTCCTAACTTCTGGTCTTTAC
CAAATTCATACTGGAGAGAAACCTTACAAATGTAATCAGTGTGGTAAAAATTTAA

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FIGURE 5596

MPYKCIECGQVFNSTSNLARHRRRIHTGEKPYKCNECGKVFRHQSTLARHRSIHTGEKPYVCNECGKAFRVRSILV
NHQKMHTGDKPYKCNECGKAFIERSKLVYHQRNHTGEKPYKCIECGKAFGRFSCLNKHQMIHSGEKPYKCNECGK
SFISRSGLTKHQTKHTAESLTKFNVKPLDVLLTSGFK

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FIGURE 5597

AGCACAGCGCTGGCCGCACTCTGACAGGAAAGGGACGGAGCCAAGATGGCGGGCGGCCGACGGCGACGACTCGCTG
TACCCCATCGCGGTGCTCATAGACGAACTCCGCAATGAGGACGTTTCTGCTTCGCTCAACAGCATCAAGAAGCTG
TCCACCATCGCCTTGGCCCTTGGGGTTGAAAGGACCCGAAGTGAGCTTCTGCTTTTCTTACAGATACCATCTAT
GATGAAGATGAGGTCTCTGCTGGCCCTGGCAGAACAGCTGGGAACCTTCACTACCTGGTGGGAGGCCAGAGTAC
GTGCACTGCTGCTGCCACCGCTGGAGTGCCTGGCCACAGTGGAGGAGACAGTGGTGGGACAGGCAAGCAGTGGAG
TCTTACGGGCCATCTCACACGAGCACTCGCCCTCTGACCTGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTG
GCGGGCGGCGACTGGTTCACTCCCGCACCTCGGCCTGCGGCCTCTTCTCCGTCTGCTACCCCCGAGTGTCCAGT
GCTGTGAAGGCGGAACCTTCGACAGTACTTCCGGAACCTGTGCTCAGATGACACCCCATGGTGGCGGGCGGCCGA
GCCTCCAAGCTGGGGGAGTTTGCCAAGGTGCTGGAGCTGGACAACGTCAAGAGTGAGATCATCCCCATGTTCTCC
AACCTGGCCTCTGACGAGCAGGACTCGGTGCGGCTGCTGGCGGTGGAGGCGTGCCTGAACATCGCCAGCTTCTG
CCCCAGGAGGATCTGGAGGCCCTGGTGATGCCCACTCTGCGCCAGGCCGCTGAAGACAAGTCTGGCGCGTCCGC
TACATGGTGGCTGACAAGTTTACAGAGCTCCAGAAAGCAGTGGGGCCTGAGATCACCAAGACAGACCTGGTCCCT
GCCTTCCAGAACCTGATGAAAGACTGTGAGGCCGAGGTGAGGGCCGCGAGCCTCCACAAAGGTCAAAGAGTTCTGT
GAAAACCTCTCAGCTGACTGTGCGGAGAATGTGATCATGTCCAGATCTTGCCCTGCATCAAGGAGCTGGTGTCC
GATGCCAACCAACATGTCAAGTCTGCCCTGGCCTCAGTCATCATGGGTCTCTCTCCCATCTTGGGCAAGACAAC
ACCATCGAGCACCTCTTGCCCTCTTCTGGCTCAGCTGAAGGATGAGTGCCCTGAGGTACGGCTGAACATCATC
TCTAACCTGGACTGTGTGAACGAGGTGATTGGCATCCGGCAGCTGTCCAGTCCCTGCTCCCTGCCATTGTGGAG
CTGGCTGAGGACGCCAAGTGGCGGTGCGGCTGGCCATCATTGAGTACATGCCCTCCTGGCTGGACAGCTGGGA
GTGGAGTTCTTTGATGAGAACTTAACTCCTTGTGCATGGCCTGGCTTGTGGATCATGTATATGCCATCCGCGAG
GCAGCCACCAGCAACCTGAAGAAGCTAGTGGAAAAGTTTGGGAAGGAGTGGGCCCATGCCACAATCATCCCCAAG
GTCTTGGCCATGTCCGGAGACCCCAACTACCTGCACCGCATGACTACGCTCTTCTGCATCAATGTGCTGTCTGAG
GTCTGTGGGCAGGACATCACCACCAAGCACATGCTACCCACGGTTCTGCGCATGGCTGGGGACCCGGTTGCCAAT
GTCCGCTTCAATGTGGCCAAGTCTCTGCAGAAGATAGGGCCCATCCTGGACAACAGCACCTTGCAGAGTGAAGTC
AAGCCCATCCTAGAGAAGCTGACCCAGGACCAGGATGTGGACGTCAAATACTTTGCCCAGGAGGCTCTGACTGTT
CTGTCTCTCGCCTGATGCTGGAAGAGGAGCAAACTGGCCTCTGGTGTCCACCCTCCAACCCCCACAAGTCCCT
CTTTGGGGAGACACTGGGGGGCCTTTGGCTGTCACTCCCTGTGCATGGTCTGACCCAGGCCCTTCCCCAGCA
CGGTTCTCTCTCCCCAGCCTGGGAAGATGTCTCACTGTCCACCTCCCAACGGGCTAGGGGAGCACGGGGTTGG
ACAGGACAGTGACCTTGGGAGGAAGGGGCTACTCCGCC

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FIGURE 5598

GCAAGACCTTCAGTCAAACGTCATACCTTGTGTACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTG
AAGAATGTGACAAAGCTTTCAGTTTCAAATCAAACCTTGAAAGACATAGGAAAATTCATACTGGAGAGAAACCTT
ACAAGTGTAAATGAATGCAGCAGGACCTTTAGTCGGAAGTCATCCCTTACACGCCATCGTAGACTTCATACTGGAG
AGAAACCTTATAAGTGTAAATGATTGTGGCAAGACCTTCAGTCAGATGTCATCCCTTGTATACCATCGTAGACTTC
ATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCGAACCTTGAAAGACATA
GGAGAATTCATACTGGAGAGAAACCTTACAAGTGTAAATGATTGTGGCAAGACCTTCAGTCAGACATCATCCCTTG
TATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAAT
CAAACCTTGAAAGACATAGGATAATTCATACTGGAGAGAAACCTTACAAGTGTAAATGAATGTGGCAAGACCTTTA
GTCGGAAGTCATCCCTTACACGCCATTGTAGACTTCATACTGGAGAGAAACCTTACCAGTGTAAATGAGTGTGGCA
AAGCCTTTCGTGGGCAGTCAGCACTTATTTACCATCAAGCAATCCATGGTATAGGGAAACCTTTACAAATGTAAATG
ATTGTCAACCAAGTCTTTAGTAATGCTACAACCATTGCAAATCATTGGAGAATCCATAATGAAGAGAGATCGTACA
AGTGTAAATAGATGTGGCAAATTTTCAGACATCGTTTCATACCTTGCAAGTTCATTGGCGAACTCATAGTGGAGAGA
AACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCAAACCTTCAAAGACATAGGAGAATTCATA
CTGGAGAGAAACCTTACAGGTGTAAATGAATGTGGCAAGACCTTTAGTCGGAAGTCATACCTTACATGCCATCGTA
GACTTCATACTGGAGAGAAACCTTACAAGTGTAAATGAGTGTGGCAAGACCTTCGGTCGAAATTCAGCCCTTATAA
TTCACAAGGCAATTCATACTGGAGAGAAACCTTACAAGTGTAAATGAGTGTGGCAAGGCTTCAGTCAGAAGTCA
CCCTTACATGCCATCTTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGACAAAGTTTTTCAGTC
GCAAAATCAAGCCTTGAAAAACACAGGAGAATTCATACTGGAGAGAAACCATACAAATGTAAGGTTTGTGACAAAG
CTTTTGGGCGTGATTACACCTGGCACAACATACTAGAATTCACACTGGAGAGAAACCTTACAAGTGTAAATGAAT
GTGGCAAGAACTTCCGTCACAATTCAGCCCTTGTAATTCATAAGGCAATTCATAGTGGAGAGAAACCTTACAAGT
GTAATGAGTGTGGCAAGACCTTCCGTCACAATTCAGCCCTTGAAATTCATAAGGCAATTCATACTGGAGAAAAAC
CTTACAAGTGTAGTGAATGTGGCAAGGTTTTTAATAGAAAAGCAAACCTTTCACGTCATCATAGACTTCATACTG
GAGAGAAACCTTACAAGTGTAAATGAATGTGGTAAGGTTTTTAATCAACAAGCACACCTTGCATGTCATCATAGAA
TTCATACTGGAGAGAAACCTTACAAGTGTAAATGAGTGTGGCAAAACCTTCCGTCACAATTCAGTCCTTGTAAATC
ATAAGACAATTCATACTGGAGAGAAACCTTACAAGTGTAAATGAATGTGGCAAGGTTTTTAATCGAAAAGCAAAAC
TTGCACGTCATCATAGAAATTCATACTGGAAAGAAACATTAGAAATATGAAGAATGTGACAAAGTTTACAGTTGTA
AATCAAGTCTTGAAAGACAGGAGAATTCATACTGGAGAGAAAGCTTACAAATGTAAGAGTTTGTGACAAGAATCT
TGGGCGTGATTACACCTGGCCCCAACAACTAGAAGTCACACTGGAGAGAAACCTTACAAGTGTACTGAGTGTGG
CAAAGCCTTTAGTGGGCAGTCAACACTTATTCACCATCAGGCAATCCATGGTATAGGGAACTTTACTAATGTAA
TGATTATCACAAAGTCTTCAGTAACACTACAACCGTTTTCAAATCATTGGAGAATCCATAATGAGAGATTTTGAA
GTGTAATAAATGTGGCAAATTTTTTTCAGACATTGTTTCATACCTTGCAGTTCATCGGTGAACCTCATGCTGGAGAGAA
ACCTTACAAATGTCATGATTGTGGCAAGGCTTTCAGTCTAGCTTCATCTTATGCAAAACAGGAGACTTCATACAG
GAGACAAACCTTACAAGTATGATGATTGCAGCAAAGCCTTTACTTCACGTTACACCTAATTAGACATCAGAGAA
TCCATACTGGACAGAAATCTTACAAATGTCATCAGTGTGGCAAGGCTTTCAGTCTGAGATCACCCCTTAAGGAAC
ATCAGAAAATTCATTTTTGAGATGATTGTTCCAAATGCAATGAGTATAGCAAACCATCAAGCATTAAATTGGCATT
AGAGTCAATTCAGCATTGACTTGAGTTTGAATTGACTTAACATTGAGTTCAAGCATTAATTGACATTAAAGTGTT
TATGTTAAGAAGATTGGGCCAGGCGGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGACCAATAG
ATCACTTGAGGTGAGGAGTTTGAGACCAGACTGGCCAACAGACATGAGTCACCTTTCCACCCCTGTATTTTGT
CTTTAATAAAAACTGTTACGGGTT

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FIGURE 5599

MSSLVYHRRRLHTGEKPYKCEECDEAFSFKSNLERHRRRIHTGEKPYKCNDGKTFSTSSLVYHRRRLHTGEKPYK
EECDEAFSFKSNLERHRIIHTGEKLYKCNECGKTFSRKSSLTRHCRRLHTGEKPYQCNECGKAFRGQSALIYHQAI
HGIGKLYKCNDCHQVFSNATTIANHWRIHNEERSYKCNRCGKFFRHRSYLAVHWRTSHGEKPYKCEECDEAFSFK
SNLQRHRRRIHTGEKPYRCNECGKTFSRKSYLTCHRRRLHTGEKPYKCNECGKTFGRNSALI IHKAIHTGEKPYCN
ECGKAFSQKSSLTCHLRLHTGEKPYKCEECDKVFSRKSSLEKHRRRIHTGEKPYCKVCDKAFGRDShLAQHTRI
TGEKPYKCNECGKNFRHNSALVIHKAIHSGEKPYKCNECGKTFRHNSALEIHKAIHTGEKPYKCECGKVFNRKA
NLSRHHRLHTGEKPYKCNKCGKVFNQAHLACHHRIHTGEKPYKCNECGKTFRHNSVLVIHKT IHTGEKPYKCNE
CGKVFNRKAKLARHHRIHTGKKH

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FIGURE 5600

AGAAACAGTGGTGCGCGGAGAGGAGAGGCCTCGGGATGTCTCTGGCAGATGAGCTCTTAGCTGATCTCGAAGAGG
CAGCAGAAGAGGAGGAAGGAGGAAGCTATGGGGAGGAAGAAGAGGAGCCAGCGATCGAGGATGTGCAGGAGGAGA
CACAGCTGGATCTTTCCGGGGATTCACTCAAGACCATCGCCAAGCTATGGGATAGTAAGATGTTTGCTGAGATT
TGATGAAGATTGAGGAGTATATCAGCAAGCAAGCCAAAGCTTCAGAAGTGATGGGACCAGTGGAGGCCGCGCCTG
AATACCGCGTCATCGTGGATGCCAACCAACCTGACCGTGGAGATCGAAAACGAGCTGAACATCATCCATAAGTTCA
TCCGGGATAAGTACTCAAAGAGATTCCCTGAACTGGAGTCCTTGGTCCCCAATGCACTGGATTACATCCGCACGG
TCAAGGAGCTGGGCAACAGCCTGGACAAGTGCAAGAACAATGAGAACCTGCAGCAGATCCTCACCAATGCCACCA
TCATGGTCGTCAGCGTCACCGCTCCACCACCCAGGGGCAGCAGCTGTGCGAGGAGGAGCTGGAGCGGCTGGAGG
AGGCCTGCGACATGGCGCTGGAGCTGAACGCCTCCAAGCACC GCATCTACGAGTATGTGGAGTCCCGGATGTCTT
TCATCGCACCCAACCTGTCCATCATTATCGGGGCATCCACGGCCGCCAAGATCATGGGTGTGGCCGGCGGCTGA
CCAACCTCTCCAAGGTGCCCGCTGCAACATCATGCTGCTCGGGGCCAGCGCAAGACGCTGTCGGGCTTCTCGT
CTACCTCAGTGCTGCCCCACACCGGCTACATCTACCACAGTGACATCGTGAGTCCCTGCCACCGGATCTGCGGC
GGAAGCGGGCCCGCTGGTGGCCGCCAAGTGCACTGGCAGCCCGTGTGGACAGTTTCCACGAGAGCACAGAAG
GGAAGGTGGGCTACGAAGTGAAGGATGAGATCGAGCGCAAATTCGACAAGTGGCAGGAGCCGCCGCTGTGAAGC
AGGTGAAGCCGCTGCCTGCGCCCTGGATGGACAGCGGAAGAAGCGAGGCGGCCGAGGTACCGCAAGATGAAGG
AGCGGCTGGGGCTGACGGAGATCCGGAAGCAGGCCAACCGTATGAGCTTCGGAGAGATCGAGGAGGACGCCTACC
AGGAGGACCTGGGATTAGCCTGGGCCACCTGGGCAAGTCGGGCAGTGGGCGTGTGCGGCAGACACAGGTAAACG
AGGCCACCAAGGCCAGGATCTCCAAGACGCTGCAGCGGACCCTGCAGAAGCAGAGCGTCGTATATGGCGGGAAGT
CCACCATCCGCGACCGCTCCTCGGGCACGGCCTCCAGCGTGGCCTTACCCCACTCCAGGGCCTGGAGATTGTGA
ACCCACAGGCGGCAGAGAAGAAGGTGGCTGAGGCCAACCAAGAAGTATTTCTCCAGCATGGCTGAGTTCCTCAAGG
TCAAGGGCGAGAAGAGTGGCCTTATGTCCACCTTGAATGACTGCGTGTGTCCAAGGTGGCTTCCCACTGAAGGGAC
ACAGAGGTCCAGTCTTCTGAAGGGCTAGGATCGGGTTCTGGCAGGGAGAACCTGCCCTGCCACTGGCCCCATTG
CTGGGACTGCCAGGGAGGAGGCCTTGGAAGAGTCCGGCCTGGCTTCCCCCAGGACCGAGATCACCGCCAGTAT
GGGCTAGAGCAGGTCTTCATCATGCCTTGTCTTTTTTAAGTGAAGAGAGATTTTTTGAAGAGTACAATTAA
AAGGACATTGTCAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5601

MSLADELLADLEEAAAAEEEGGSYGEEEEPAIEDVQEETQLDLSGDSVKTIAKLWDSKMFAEIMMKIEEYISKQA
KASEVMGPVEAAPEYRVIVDANNLTVEIENELNIIHKFIRDKYSKRFPESLVPNALDYIRTVKELGNSLDKCK
NNENLQQILT NATIMVVSVTASTTQGOQLSEEELEERLEEACDMALELNASKHRIEYVESRMSFIAPNLSIIIGA
STAAKIMGVAGGLTNLSKVPACNIMLLGAQRKTLSGFSSTSVLPHTGYIYHSDIVQSLPPDLRRKAARLVAAKCT
LAARVDSFHSTEGKVGyelKDEIERKFDKWQEPppVKQVKPLPAPLDGQRKKRGRRYRKMKERLGLTEIRKQA
NRMSFGEIEEDAYQEDLGfSLGHLGKSGSGRVrQTQVNEATKARISKTLQRTLQKQSVVYGGKSTIRDRSSGTAS
SVAFTPLQGLEIVNPQAAEKKVAEANQKYfSSMAEFLKVKGEKSGLMST

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FIGURE 5602

GTTCTCGACTATTGCCGAAGTGAGCCGAAGTTTGTGGCCCCGCTTCCGGAGAACTCAAGCTCCCGATTGTGCCCCG
AAGGAACCCGAAGGGAGACCCCGCCTCATTCTCAGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCT
GTTCCCTTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCAGGCCCCGAAGGCCCGCCCCCTTACGTACTCGGAG
CTCGGATCCCAAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGGCTTCTGCTCCGGGGCTTCTT
CCCTGCCCGCCCGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCGGGCGGGCGCCAGAGGA
GCAGGCGGCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCG
GCCGCTCCTGCCCGGCGAGCAGCTCAGACCATGTGCGCTGAAGAATGGACGTATCTAGTGGTCTTCTTATCTC
CATCCCCATCGGCTTCTCTTTAAGAAAGCCGGTCTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCTGGG
GCTCACCTGTTCACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGGCCCCATTCA
GGCCCAGCCCTGCTCCTGCCACGCCCTGGCTCTGGCCTGGACTTTCTCCTATCTCCTGTTCTTCCGAGCCCTCAG
CCTCCTGGGCTGCCACTCCACGCCCTTACCAATGCCGTCCAGCTGCTGCTGACGCTGAAGCTGGTGAGCCT
GGCCAGTGAAGTCCAGGACCTGCATCTGGCCAGAGGAAGGAAATGGCCTCAGGCTTACAGCAAGGGGCCACCT
GGGGCTGCTGCCGACGTGCCCTCCCTGATGGAGACACTCAGCTACAGCTACTGCTACGTGGGAATCATGACAGG
CCCGTTCTTCCGCTACCGCACCTACCTGGACTGGCTGGAGCAGCCCTTCCCCGGGGCAGTGCCAGCCTGCGGCC
CCTGCTGCGCCGCGCCTGGCCGGCCCCGCTCTTCGGCCTGCTGTTCTCTGCTCTCCTCTCACCTCTTCCCGCTGGA
GGCCGTGCGCGAGGACGCTTCTACGCCCGCCCGCTGCCCGCCCGCCTCTTCTACATGATCCCCGCTTCTTCGC
CTTCCGATGCGCTTCTACGTGGCCTGGATTGCCGCCGAGTGGCGCTGCATTGCCGCCGGCTTTGGGGCTACCC
CGTGGCCGCCAAAGCCCCGGGCCGAGGCGGCCACCTTCCAATGCCACCCCCAGCAGTCCGGAGAAGGCGGC
TTCTTGGAGTATGACTATGAGACCATCCGCAACATCGACTGCTACAGCACAGATTCTGCGTGCGGGTGCGCGA
TGGCATGCGGTACTGGAACATGACGGTGCAGTGGTGGCTGGCGCAGTATATCTACAAGAGCGCACCTGCCCGTTC
CTATGTCCTGCGGAGCGCCTGGACCATGCTGCTGAGCGCCTACTGGCACGGCCTCCACCCGGGCTACTACCTGAG
CTTCTGACCATCCCGCTGTGCTGGCTGCCGAGGGCCGGCTGGAGTCAGCCCTGCGGGGGCGGCTGAGCCCAGG
GGGCCAGAAGGCCTGGGACTGGGTGCACTGGTTCTGAAGATGCGCGCCTATGACTACATGTGCATGGGCTTCGT
GCTGCTCTCCTTGGCCGACACCTTTCGGTACTGGGCTCCATCTACTTCTGTATCCACTTCTGGCCCTGGCAGC
CCTGGGGCTGGGGCTGGCTTTAGGTGGGGCAGCCCCAGCCGGCGGAAGGCAGCATCCAGCCCACAGCCTTGC
CCCAGAGAAGCTCCGGGAGGAGTAAGCTGTACGACGCTCCCTCTGCCAGCTGGTCCCGGAATTCTGTGAACCA
GGCTGCTGTCTCCTCCCCAGAAAGAGTCTTACCTTGGAGAGGGTCTTGAGAGAATTTCTCTTCCCCAGCTAA
ATACCCTGCCTGCAACTGAAGCAGACCCGGGGGTGTCCTCCCTGCCCTCTGCCAGAGGCCACCTCCACTCCTAC
AAAATCAAAGTATTGTCCAGACAAGAGTCACTGGCCCTGCTCCAGCTTCTGGGTATCCAGAGACACTGCACCT
CCCCAAAACGGAAGGGGCCCTGGGCAGTGGGTTTTGGGCAAATTCCTTTCTTTGCATCCACAATGTGGGGTCG
GAGCTTGGGGGCGAGTCTGGGAGTGGGAAGCCTCTTCTTGTGTCTTTGCTCCACTTTAGCTCATCGACCA
ATATTGCAGACTTGAAGGAAGCATAAGCTTCCATTTCACAAAGGGGAAACTGAGGTGCGGGTGCGCGGGCCTG
GGGACGGCGTCCCATGGCTTCCATCTGAGCCACCTCGGGACCCAGCGCTCCTGGCGCCCTCTTCTCATCGCTT
GGCCTATGACAGGTCACCGTGTGTAATCTTTCCCAATAAAGTGTTCACAAAG

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FIGURE 5603

CCCGCGCAGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCGAAAACTTATGT
GACCCCGCGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAA
CAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCCGGGAACCTGCTGACGCTTGA
TGAGAAGGACCCACGGCGTCTGTTTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGA
GGGCAAGATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGT
CTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAA
GCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCACATCGACTTCTCTCTGCGCTCTCC
CTACGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGAGA
CGACGAGGAGGAGGATTAAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGTTTTCTGCCAAATAAACAG
GATCAGCGCTTTA

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FIGURE 5604

MPVARSWVCRKTYVTPRRPFEKSRLDQELKLIGEYGLRNKREVVRVKFTLAKIRKAARELLTLDEKDPRRLFEGN
ALLRRLVRIGVLDEGKMKLDYILGLKIEDFLERRLOTQVFKLGLAKSIHHARVLIRQRHIRVRKQVNVNIPSFIVR
LDSQKHIDFSLRSPYGGGRPGRVKRKNAKKQGGAGAGDDEED

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FIGURE 5605

CCGAAGGGAGACCCCGCCTCATTCTACGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCTGTTCCCC
TTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCCGAGCCCGAAGGCCCGCCCTTCACGTACTCGGAGCTCGGAT
CCCAGTGTGGACCTGGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTTCCCTGCC
CGCCCGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCGGCGGGCGCCCAGAAGGAGCAGGCG
GCGCGGGGGCGCGCTGGGCGGGGAGGCGTGGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCGGCCGCCT
CCTGCCCGGCGAGCAGCTCAGGTCTTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCCTGGGGCTCACCTGT
TCACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGGCCCTCATTAGGCCAGCCCT
G

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FIGURE 5606

LAPPCSEPEGPPLHVLGARIPVWTWTRIPLPTRALGFCSGASSLPARGPDRGFFPGLICAARRAPRRSRRRGGAL
GGGGVAGAAAASGLGLLGRLLPGEQLRSWAEEMGSSRCGPGAHPVHLWPPHFAFSGHHPRDLGPHSGPA

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FIGURE 5607

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCGCAAACTTATGTGACCCCG
CGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAACAAACGT
GAGGTCTGGAGGGTCAAATTTACCTGGCCAAGATCCGCAAGGCCGCCCGGGAAGTGTGACGCTTGATGAGAAG
GACCCACGGCGTCTGTTTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGAGGGCAAG
ATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGTCTTCAAG
CTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAAGCAGGTG
GTGAACATCCCCTCCTTCATTGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGA
GACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCG

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FIGURE 5608

GGCACGAGGCTCAAGATTCACAGCATCTCAGACGCAGCCTAGGTTCCCATGGACTTGTTCATAAGACAAAAGAGGA
CAGCTGTGCTGAGGGGGCAGGGTCTGCAGCCTCCTGGCTGTGCCAGGACCACACCTACCAAGGCCGCACCAGGAT
GTCGGACACCGAGGAGCAGGAATATGAGGAGGAGCAGCCGGAAGAGGAGGCTGCGGAGGAGGAGGAAGAAGA
GGAACGCCCCAAACCAAGCCGCCCCGTGGTGCCTCCTTTGATCCCGCCAAAGATCCCAGAAGGGGAGCGCGTTGA
CTTCGATGACATCCACCGCAAGCGCATGGAGAAAGACCTGCTGGAGCTGCAGACACTCATCGATGTACATTTTGA
GCAGCGGAAGAAGGAGGAAGAGGAGCTGGTTGCCTTGAAGGAGCGCATTGAGCGGCGCCGGTCAGAGAGAGCCGA
GCAACAGCGCTTCAGAACTGAGAAGGAACGCGAACGTCAGGCTAAGCTGGCGGAGGAGAAGATGAGGAAGGAAGA
GGAAGAGGCCAAGAAGCGGGCAGAGGATGATGCCAAGAAAAAGAAGGTGCTGTCCAACATGGGGGCCCATTTTGG
CGGCTACCTGGTCAAGGCAGAACAGAAGCGTGGTAAGCGGCAGACGGGGCGGGAGATGAAGGTGCGCATCCTCTC
CGAGCGTAAGAAGCCTCTGGACATTGACTACATGGGGGAGGAACAGCTCCGGGAGAAAGCCCAGGAGCTGTTCGGA
CTGGATCCACCAGCTGGAGTCTGAGAAGTTTCGACCTGATGGCGAAGCTGAAACAGCAGAAATATGAGATCAACGT
GCTGTACAACCGCATCAGCCACGCCCAGAAGTTCCGGAAGGGGGCAGGGAAGGGCCGCGTTGGAGGCCGCTGGAA
GTGAGGATGCCGCCCCGGACAGTGGCACCTGGGAAGCCTGGGAGTGTGTTGTCCCATCGGTAGCTTGAAATAAACG
CTCCCCCTCAGACACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5609

MSDTEEQYEEEEQPEEEEAAEEEEEEEEERPKPSRPVVPPLIPPKIPEGERVDFDDIHRKRMEKDILLELQTLIDVHF
EQRKKEEEEELVALKERIERRRSERAEQQRFRTEKERERQAKLAEEKMRKEEEEAKKRAEDDAKKKKVLSNMGAFH
GGYLVKAEQKRGKRQTGREMKVRILSERKKPLDIDYMGEELREKAQELSDWIHQLESEKFDLMAKLKQQKYEIN
VLYNRISHAQKFRKGAGKGRVGGRWK

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FIGURE 5610A

CGCCCAGCTAATTTTTGTATTTTTGGTAGAGACAGGGTTTCGCCATGTTGCCCAGGCTGGTCTTGAACCTTCTGAC
CTCAAGTGATATGCCTGCCTCAGCCTCCCCAAGGGGTACCTCCCCACAGTCCTGGAGCAGACTGTGGCCCCCTCAGG
GCCTTGAGTGGCACGCTGGTGGGGCAGCTCTTGTCTTGGAGCCGTGAGGCACCGTGTGAAAGTTTGGAGGAGGGA
GGCAGGAGGTGAGGTTGGAAGTTGAGCAAGGTTCCAGGAGTCAGCCGGAGCTGGGGCAGCATACGGGGTTGCAAG
TGAAGCCGCTGAGAGGCAAAAAGGGATGAGTGTTAGCTGCTGTGGGATTGGGAAGCGCAGGAGCTTCAGGACCAGC
TTGTCTTGGGGGTGGTAAGGAGCCTAGGATGGGATGGTTGGGTGTTAGCAGGGTGGAGGAGGCCTGGTGTGGGCC
CTTGTCTTGCCTCACCTGTCTCTGCCCTTTCCCTTCCCTGGACAGGGGTCTCTGCAGTTCCCAGAAAACCCAG
TGCCCGGTGCAGAGAAGAGGGTGGAGCCTTGCCGCCCCCTGCCCGGCTCCGACCCGAGCCCCACCCGCCTG
TGCTTGCTCCAGGTACCCAGTGTGGCCTGCGAGATTCTGACCTCAGATGTGCCCAGATCAATGATGCCCTG
GGTGCCGATGAGTCCCTTCTGAACCGGCTCTACGGCTTCTGACAGACACCGGCAGCCTCAACCCACTGCTGGCC
AGCTTCTTCAGCAAGGT**CAT**GGGCATCCTCATCAACCGCAAGACAGACCAGCTCGTGTCTTTCTTCGGAAGAAG
GATGACTTCGTGGACCTGCTGCTGCAGCACATTGGCACCTCGGCCATCATGGACCTCCTGCTGCGCCTGCTCACC
TGTGTGGAGCGGCTCAGCTGAGGCAGGATGTTGTCAATTGGCTCAACGAGGAGAAGATCGTCCAGCGGCTGATT
GAGCAGATCCACCGTCAAGGATGAGAATCAACATTCCAACGCATCCCAGTCCCTGTGTGACATCATCCGCCTG
AGCCGGGAGCAGATGATCAAGTCCAGGACAGCCCAGAGCCTGACCAACTGCTGGCCACCCTGGAGAAGCAGGAG
ACGATTGAGCAGCTCTTAAGCAACATGTTGAGGGGGAGCAGAGCCAGTCTGTCTATCGTCAGTGGGATCCAGGTG
CTGCTGACCTGCTGGAGCCCAGGAGGCCGAGGTCCGAGTCCGTGACCGTGAACAGCTTCTTCAGCAGTGTGGAT
GGGCAGCTGGAGCTCCTGGCCAGGGGGCCCTGGAAAGCACTGTGTCCAGTGTGGGCGCCTTGACGCCCCACGC
CCGCGGCTCAGTGCTTCCACCAGCTCCTGCTGGAGCCTCCCAAGCTGGAGCCGCTACAGATGACATGGGGCATG
CTGGCTCCGCTCTGGGCAACACGCGGCTGCACGTGGTCAAGCTCCTGGCCAGTGGCCTGAGCGCCAATGATGCA
GCCCTGACGCACGAGCTCCTGGCACTGGACGTGCCAACACCATGCTGGACCTCTTCTTCCATTATGTCTTCAAC
AACTTCTTGATGCCAAGTAGAGGGATGCGTGAGCACCATGCTGAGCTTGGGGCCACCTCCTGACAGCAGCCCT
GAGACGCCCATCCAAACCCTGTTGTGAAACATCTGCTGCAGCAGTCCGCTGGTGGAGCGGATCCTGACGTCC
TGGGAGGAGAACGACCGTGTACAGTGTGCGGGAGGCCCTCGGAAAGGCTACATGGGTACCTGACAAGAGTGGCC
GGTGCCCTGGTGCAGAACACGGAGAAGGGGCCCAATGCAGAGCAGCTGCGGCAGCTGCTGAAGGAGCTGCCCAGC
GAGCAGCAGGAGCAGTGGGAAGCCTTCGTATCGGGGCCCTGGCGGAGACCAACAAGAAGAACATGGTGGACCTG
GTGAACACCCACCACCTACACTCCTCCAGTGACGATGAGGACGACCGGCTCAAGGAGTTCAACTCCCTGAGGAG
GCTGTGCTGCAGCAGGCCTTCATGGACTTCCAGATGCAGCGCATGACCTCTGCCTTCATTGACCACTTCGGCTTC
AATGATGAGGAGTTTGGGAGCAGGAGGAGAGTGTGAACGCACCTTTTGACAAGACAGCCAACATCACCTTCTCC
CTCAATGCTGACGATGAGAACCCCAACGCCAACCTACTTGAGATATGCTACAAGGACCGCATCCAGCAGTTTGAT
GATGATGAGGAAGAGGAGGACGAGGAAGAGGCCAGGGCTCAGGGGAGTCTGATGGAGAAGATGGCGCTGGCAG
GGCAGCCAGCTGGCCAGGGGGGCCGCTCTGGGCCAGCCACCTGGTGTCCGAGTGGAGGCAGCAGACAGTGAAG
GACGAAGAAGAGGAGGACGAGGAGGAGGAGGAAGACGAGGAGGGCATTGGCTGTGCAGCCCGTGGAGGGGCCACC
CCTCTGTCTACCCAGCCCTGGCCCTCAGCCTCCAGGCCCCAGCTGGACAGCCACCTTTGACCCAGTGCCTACA
GATGCCCCGACCAGCCCCGAGTCTCCGGGGAGGAAGAGCTGCACACTGGGCCTCCAGCCCCACAGGGGGCCCTC
AGTGTGCCCCAGGGCCTCCCCACTCAGAGCCTGGCCAGCCCTCCTGCCCGTACGCCCCTGCAGCTCAGGTCTCAG
GACCCACACCCCCCTCAGCACCTCAGGAAGCCACAGAAGGCAGCAAAGTCACGGAGCCCTCAGCCCTTGCCAG
GCCTTGTTAGCATCGGGGACCTTCAGGCCACCTTCCACGGGATCCGTTCTGCCCCAGCTCCTCGGACAGTGCA
ACCAGAGACCCCTCTACCTCTGTCCAGCCTCCGGGGCCACCAGCCCCCCAGACCACAGAAGGGGAGAAGAGC
CCAGAGCCCTTGGGGCTTCCCCAAAGCCAGAGTGCCAGGCCCTCACGCCTCCTCCGATACCCAATGGCTCTGCC
CCGGAAGGGCCTGCATCCTCAGGCTCCCA**TAG**CTGCCTGGTGCGGCAGCGGCGGCCAAATCTTCCGTCTCCCG
TGGATCTCCCGGGGTGGGGGCAGGGCGGGTCCCACGATGGCCCCCATTGCCCTCATCACCTGACACCCCCACAT
TCTCTCCTCTGGACCCCCAGGAGGCTGGTGCCAGGGAGACAGGCCCAACCCACCCCATTTGCACTGAGAAGAGA
AGTTTTGGAGCGTTGCCCTCTAGAATAAAGATACAGAGAGTCAAATAGAGAGAATGGAGAGAGAGAAAACATATAT
TATATATTATATAGAGAGAGGGAGGAGAGCGAGAGAGAGTGAAGACACCGAACTGGGCTGGCGGCTCCAAAGCAC
AGCCTTCCCTGTTCCGTCCAGCGGGAGCTGGTGTAGGGGTCCCAAGGTTGCCACCCACGTGCCCAGCTGTCCC
ACGCTGCAGCGCAGACGGCCACGCCCACACCCGGCCTTTTAGCTCAGGTCCACCATGGGGGACGGGCCAGCGTGG
GTGGGGGTGCCAGAGGGTCCCGAGTGGGGGCCGTGCCCTTTGCCAGACCCCTGCACCTTTCAACCAGGCCAGTCCGG

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FIGURE 5610B

CTCTGGGGAGCAGGGGCCTCCCCGGCAACAGCCCCAGGGGCCTTGAGGGTCTGAGGTCCCAGCCCTGTTGCCAAG
TGACCTTGTCCTCCAGCTCCCTCCTCCCAGGCTGGTGTGAGTGTGCGTGCGTTTGTCCTGAGCTTCTATTTTCATAT
TGCAAATATAAATAAAGGAAGGCAGTTTACG

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FIGURE 5611

MGILINRKTDQLVSFLRKDDFVDLLLQHIGTSAIMDLLLRLLTCVERPQLRQDVVNWLNEEKIVQRLIEQIHPS
KDENQHSNASQSLCDIIRLSREQMIQVQDSPEPDQLLATLEKQETIEQLLSNMFEGEQSQSVIVSGIQVLLTLE
PRRPRSESVTVNSFFSSVDGQLELLAQGALESTVSSVGALHALRRLSCFHQLLLEPPKLEPLQMTWGMLAPPLG
NTRLHVVKLLASALSANDAALTHELLALDVPNTMLDLFFHYVFNNFLHAQVEGCVSTMLSLGPPPDSSPETPIQN
PVVKHLLQQCRLVERILTSWEENDRVQCAGGPRKGYMGHLTRVAGALVQNTTEKGPNAEQRLRQLLKELPSEQQEQW
EAFVSGPLAETNKKNMVDLVNTHHLHSSDDEDDRLKEFNFP EEAVLQQAFMDFQMQRMTSAFIDHFGFNDEEFG
EQEESVNAPFDKTANITFSLNADDENPNANLLEICYKDRIQQFDDDEEEDEEEEAQSGSGEDGEDGAWQGSQAR
GARLGQPPGVRSGGSTDSEDEEEDEEEDEEEDEEGIGCAARGGATPLSYSPGPQPPGPSWTATFDPVPTDAPTSP
RVSGEEELHTGPPAPQGPLSVPOGLPTQSLASPPARDALQLRSQDPTPPSAPQEATEGSKVTEPSAPCQALVSIG
DLQATFHGIRSAPSSSDSATRDPSTSVPASGAHQPPQTTEGEKSPEPLGLPQSQSAQALTTPPIPNNGSAPEGPAS
SGSQ

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FIGURE 5612

GCGGCGCCAGCAGAGTCAGGTGCGGACGACTTTGTCTGTAGGAGCAGCGGCGGCTTGAGGACCCGGGGAGACCC
TCAAGAATCGACCCATCAGGACGCCAGAGCTGCTTCAGCGGTGACCACCTTCTCCCTCTAACACATTCTTCCCTT
CTTCACAAACGGCCCATGTCAGACGAAGGCTCAAGGGGGAGCCGCCTGCCCTGGCGCTGCCCCGGCCCTCCAG
GGTTGCTCTTCAGGGGGCGGCGGCGGCGGCGGCGGCTCCTCGGCTGGGGGCTCGGGCAATTCCCGGCCCCCA
CGCAACCTCCAAGGCTTGCTGCAGATGGCCATCACCGCGGGCTCTGAAGAGCCAGACCTCCTCCAGAACCGATG
AGTGAGGAGAGGCGTCAGTGGCTGCAGGAGGCCATGTCGGCTGCCTTCCGAGGCCAGCGGGAGGAGGTGGAGCAG
ATGAAGAGCTGCCTCCGAGTGCTGTCACAGCCCATGCCCCCACTGCTGGGGAGGCCAGCAGGCGGCCGACCAG
CAAGAGCGAGAGGGGGCCCTGGAGCTGCTGGCCGACCTGTGTGAGAACATGGACAATGCCGCACTTCTGCCAG
CTGTCTGGCATGCACCTGCTGGTGGGCCGGTACCTGGAGGCGGGGGCTGCGGGACTGCGGTGGCGGGCGGCACAG
CTCATCGGCACGTGCAGTCAGAACGTGGCAGCCATCCAGGAGCAGGTGCTGGGCCTGGGTGCCCTGCGTAAGCTG
CTGCGGCTGCTGGACCGCGACGCCTGCGACACGGTGCGCGTCAAGGCCCTCTTCGCCATCTCCTGTCTGGTCCGA
GAGCAGGAGGCTGGGCTGCTGCAGTTCTTCCGCCTGGACGGCTTCTCTGTGTTGATGAGGGCCATGCAGCAGCAG
GTGCAGAAAGCTCAAGGTCAAATCAGCATTCTGCTGCAGAACCTGCTGGTGGGCCACCTGAACACAAAGGGACC
CTGTGCTCCATGGGGATGGTCCAGCAGCTGGTGGCCCTGGTGCAGACAGAGCACAGCCCCCTCCACGAGCACGTG
CTTGAGCCCTGTGCAGCCTGGTGACAGACTTTCGCGAGGGTGTGCGCGAGTGTGGGAGCCGGAACCTGGGCCTG
GAGGAGCTCCTCCGCCACCGCTGTGAGCTGCTGCAGCAGCATGAGGAGTACCAGGAGGAGCTGGAGTTCTGTGAA
AAGCTGCTACAGACCTGTTTCTCCAGCCCAGCGGACGACAGCATGGATCGGTGAAACCAGGTGGCTTCTTGCCCC
CTTCTCCGTGGGAACCCAGGCCTCTTGCTTCCCTCCCCACCTACAAGGCCCTCTCCAAGGGATCGCAGGGCCT
AGGTGCCTGGACCCAGGGTGTGCCAGCCCGTCTCTGTGCAGTCCCTGGAAGGGGCGCTGAGAAAGGCACCAGCTC
CTTGACCCACCTCCCATGCTCTCACTCTCATCCCGTTCTCTTGTCACACAGCTCTTCCAATAAAGGTGTTT
CTCTTCTCCTTCTC

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FIGURE 5613

CTCTTTCCGTCTCAGGTCGCCGCTGCGAAGGGAGCCGCCGCCATGTCTGCGCATCTGCAATGGATGGTCGTGCGG
AACTGCTCCAGTTTCCTGATCAAGAGGAATAAGCAGACCTACAGCACTGAGCCCAATAACTTGAAGGCCCCGCAAT
TCCTTCCGCTACAACGGACTGATTACCGCAAGACTGTGGGCGTGGAGCCGGCAGCCGACGGCAAAGGTGTCTGTG
GTGGTCATTAAAGCGGAGATCCGGCCAGCGGAAGCCTGCCACCTCCTATGTGCGGACCACCATCAACAAGAATGCT
CGCGCCACGCTCAGCAGCATCAGACACATGATCCGCAAGAACAAGTACCGCCCCGACCTGCGCATGGCAGCCATC
CGCAGGGCCAGCGCCATCCTGCGCAGCCAGAAGCCTGTGATGGTGAAGAGGAAGCGGACCCGCCCCACCAAGAGC
TCCTTGAGCCCCCCTGCCCCCAGAGCAATAAAGTCAGCTGGCTTTCTCAAAA

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FIGURE 5614

MSAHLQWMVVRNCSSFLIKRNKQTYSTEPNNLKARNSEFRYNGLIHRKTVGVPEADGKGVVVVIKRRSGQRKPAT
SYVRTTINKNARATLSSIRHMIRKNKYRPDLRMAAIRRASAILRSQKPVMVKRKRTRPTKSS

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FIGURE 5615

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCGGCCGGCCGCAGCCATGAACTCCAACGTGG
AGAACCTACCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTCACCATCGAGGGCCCTGAGGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGCGGGCCGCCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGGCGCCGGCGGGCCCCAGCGGCAGGGCCGAAGCCGGTCGGGCCCTGGCCAGTGGCACTGAAGCTTCCCTCCACCG
ACCCTGGGGCCCCAGGGGGCCCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGGCGCTGCGGCGGGCTGTAGTGGGCTCTCTTCC
TCCTTCCACCGTGACCCCAACCTCTCCTGTCCCCTCCCTCCAACCTGTCTCTAAGTTATTTAAATTATGGCTGG
GGTCGGGGAGGGTACAGGGGGCACTGGGACCTGGATTGTGTTTTCTAAATAAAGTTGGAAAAGCA

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FIGURE 5616

MNSNVENLPPHIIRLVYKEVTTLTADPPDGIKVFNPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLL GKDFPASPP
KGYFLTKIFHPNVGANGEICVNVLKRDWTAELGIRHVLLTIKCLLIHPNPESALNEEAGRLLLENYEEYAARARL
LTEIHGGAGGPPSGRAEAGRALASGTEASSTDPGAPGGPGGAEGPMAKKHAGERDKKLAAKKKTDKKRALRALRRL

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FIGURE 5617

AATTCTTTCATTTTCAGAGTTGAGCAAACCTGTGTCTCAAGGAGGTGTGCGCTGCAGGTAGCTGATGTGGCCAGGAT
TTGAACCCACATTTTATATTCTTTGCCATTAGATTCCATTTTTCTTATCTCTTATTTCTCAGCGCCAGGTCTCTT
TTTGTCTCTGGGCCTCTTTCTTCCTTGGCCTCCTGCCTCCCTGTCTTCCCATGTTCTTGTATCTGCTGCTGCGCTG
TGTTTTTCTCATTGTGTCTCTGCCTAGCTCCCTCTGCCAGGTTTCTATGTGTCTCTTTCTGTCAGAACTGTCTT
CTATTTCTTCTCAGTCCCTTCTCTGCATTTGTTACATCATCTCTTCATCTTAATGTATTAGGCTGGGGCTGTTT
TGGGACTCCAGAGAGTTACTTTTAACTAGCTACATCTGTCTTCAGGTGCCTGGCTTTCTGGCCTGAGGTGGAAG
CAGAGGCCAGCCTCTCTCCGTCATCCCTATCTCCCTGGGCTTACATCATGGCGGGGCTTTGAAAATCTCCCTCT
GTGGCTTCTTGGAGCCGCATAGATGGGTGATCAGAGCTGGCTCTGGAACCAGGCTGCTCCAGGAGTAAGGAGCCC
AGTCTTTGCATGCAGTGTTGAAAAAGGTAATGTCCCTCTTGTGCTGAGCGAGCACCTGGCACACAGCAGGGACCC
AGGCAGTGGGGCTGTTAGGTTCTTATCTCTCTCTGAGCCTTGGGCTTCCGCTATCCTTGGGACGTCGTGGTCTTCT
GGCTTCCCCGGTCTTCTCTGCCGCCCTGGATGCGGTGACCTGCCAGCACCTGCCGCAGCCTTCTGCCGGGAGTCG
CCCCATCTCTCCACGCAATCGGCCCTGTGCCCTTGTGCTGTCAGCCGGGCACCATGTCGACCTCGTCCCTTGAGG
CGCCAGATGAAGAACATCGTCCACAACCTACTCAGAGGCGGAGATCAAGGTTTCGAGAGGCCACAGCAATGACCCC
TGGGGCCCATCCAGCTCCCTCATGTCTCAGAGATTGCCGACCTCACCTACAACGTTGTGCGCTTCTCGGAGATCATG
AGCATGATCTGGAAGCGGCTCAATGACCATGGCAAGAACTGGCGTCACGTTTACAAGGCCATGACGCTGATGGAG
TACCTCATCAAGACCGGCTCGGAGCGCGTGTGCGCAGCAGTGAAGGAGAATGTACGCCGTGACAGCGCTGAAG
GACTTCCAGTACGTGGACCGCGACGGCAAGGACCAGGGCGTGAACGTGCGTGAGAAAGCTAAGCAGCTGGTGGCC
CTGCTGCGCGACGAGGACCGGCTGCGGGAAAGAGCGGGCGCACGCGCTCAAGACCAAGGAAAAGCTGGCACAGACC
GCCACGGCCTCATCAGCAGCTGTGGGCTCAGGCCCCCTCCCGAGGCGGAGCAGGCGTGGCCGACAGCAGCGGG
GAGGAGGAGCTGCAGCTCCAGCTGGCCCTGGCCATGAGCAAGGAGGAGGCCGACCAGGAGGAGCGGATCCGTCGC
GGGATGACCTGCGGCTGCAGATGGCAATCGAGGAGAGCAAGAGGGAGACTGGGGGCAAGGAGGAGTCGTCCCTC
ATGGACCTTGCTGACGTCTTACGGCCCCAGCTCCTGCCCCGACCACAGACCCCTGGGGGGGCCAGCACCCTATG
GCTGCTGCCGTCCCCACGGCTGCCCCACCTCGGACCCCTGGGGCGGGCCCCCTGTCCCTCCAGCTGCTGATCCC
TGGGGAGGTCCAGCCCCACGCCGGCTCTGGGGACCCCTGGAGGCTGCTGCCCTGCAGGACCCCTCAGTTGAC
CCTTGGGGTGGGACCCAGCCCCGACGCTGGGGAGGGGGCCACGCCTGATCCATGGGGAAGTTCGATGGTGGG
GTCCCGGTGAGTGGGCCCCAGCCTCCGATCCCTGGACACCGGCCCGGCCCTTCTCAGATCCCTGGGGAGGGTCA
CCTGCCAAGCCAGCACCAATGGCACAACAGCAGCCGGGGGATTGACACGGAGCCCGACGAGTTCTCTGACTTT
GACCGACTCCGCACGGCACTGCCGACCTCCGGGAGCAGCGCAGGAGAGCTGGAGCTGCTGGCAGGAGAGGTGCCG
GCCCCAAGCCCTGGGGCGTTTGACATGAGTGGGGTCAGGGGATCTCTGGCTGAGGCTGTGGGCAGCCCCCACCT
GCAGCCACACCAACTCCACGCCCCCACC CGGAAGACGCCGGAGTCATTCTGGGGCCCAATGCAGCCCCCTCGTC
GACCTGGACTCGCTGGTGAGCCGGCCGGGCCCCACGCCGCTGGAGCCAAGGCTCCAACCCCTTCTGCCAGGC
GGAGGCCCAGCCACTGGCCCTTCCGTCACCAACCCCTTCCAGCCCGCGCCTCCCGCGACGCTCACCCCTGAACCAG
CTCCGTCTCAGTCTGTGCTCCCGTCCCTGGAGCGCCACCCACGTACATCTCTCCCTTGGCGGGGGCCCTGGC
CTGCCCCCATGATGCCCCGGGGCCCCCGGCCCAACACTAATCCCTTCTCCTATTAATCCAGGGCGGAAGGG
GGCCTGGCTCCATCCGGCTGCCCCATTCCGGCTCCCTGGGAGATCAGTGTTGTGAGTGCAATGTGAAATGG

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FIGURE 5618

MSTSSLRRQMKNIVHNYSEAEIKVREATSNDPWGPSSSLMSEIADLTYNVVFSEIMSMIWKRLNDHGKNWRHVY
KAMTLMEYLIKTGSESVSQCKENMYAVQTLKDFQYVDRDGKDQGVNVREKAKQLVALLRDEDRLREERAHALKT
KEKLAQTATASSAAVSGPPPEAEQAWPQSSGEEELQLQLALAMSKEEADQEERIRRGDDLRLQMAIEESKRETG
GKEESSLMDLADVFTAPAPAPTTDPWGGPAPMAAAVPTAAPTSDPWGGPPVPPAADPWGGPAPTPASGDPWRPAA
PAGPSVDPWGGTPAPAAGEGPTDPWSSDGGVPVSGPSASDPWTPAPAFSDPWGGSPAKPSTNGTTAAGGFDTE
PDEFSDFDRLRTALPTSGSSAGELELLAGEVPARSPGAFDMSGVVRGSLAEAVGSPPPAATPTPTPTTRKTPESFL
GPNAALVDLDSLVSRLPGPTPPGAKASNPFLPGGGPATGPSVTNPFQAPPATLTLNQLRLSPVPPVPGAPPTYIS
PLGGGPGLPMMPPGPPAPNTNPFLL

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FIGURE 5619

GAGGCGAAAGCTGCACAGGGCCCTACGCGGCCGCTCAGC**ATGT**CGGACTTCGACGAGTTCGAGCGGCAGCTCAA
CGAGAATAAACAAAGAGCGGGACAAGGAGAACCGGCATCGGAAGCGCAGCCACAGCCGCTCTCGGAGCCGGGACCG
CAAACGCCGGAGCCGGAGCCGCGACCGGCGCAACCGGGACCAGCGGAGCGCCTCCCGGGACAGGCGACGACGCAG
CAAACCTTTGACCAGAGGCGCTAAAGAGGAGCACGGTGGACTGATTTCGTTCCCCCGCCACGAGAAGAAGAAGAA
GGTCCGTAAATACTGGGACGTGCCACCCCCAGGCTTTGAGCACATCACCCCAATGCAGTACAAGGCCATGCAAGC
TGCGGGTCAGATTCCAGCCACTGCTCTTCTCCCCACCATGACCCCTGACGGTCTGGCTGTGACCCCAACGCCGGT
GCCCGTGGTCGGGAGCCAGATGACCAGACAAGCCCCGGCGCCTCTACGTGGGCAACATCCCTTTGGCATCACTGA
GGAGGCCATGATGGATTCTTCAACGCCCAGATGCGCCTGGGGGGGTGACCCAGGCCCTGGCAACCCAGTGT
GGCTGTGCAGATTAAACCAGGACAAGAATTTTGCCTTTTGGAGTTCGCTCAGTGGACGAGACTACCCAGGCTAT
GGCCTTTGATGGCATCATCTTCCAGGGCCAGTCACTAAAGATCCGCAGGCCTCACGACTACCAGCCGCTTCCTGG
CATGTCAGAGAACCCCTCCGTCTATGTGCCTGGGGTTGTGTCCACTGTGGTCCCGACTCTGCCCACAAGCTGTT
CATCGGGGGCTTACCCAACTACCTGAACGATGACCAGGTCAAAGAGCTGCTGACATCCTTTGGGCCCTCAAGGC
CTTCAACCTGGTCAAGGACAGTGCCACGGGGCTCTCCAAGGGCTACGCCTTCTGTGAGTACGTGGACATCAACGT
CACGGATCAGGCCATTGCGGGGCTGAACGGCATGCAGCTGGGGGATAAGAAGCTGCTGGTCCAGAGGGCGAGTGT
GGGAGCCAAGAATGCCACGCTGGTGAGCCCCCGAGCACCATCAATCAGACGCCTGTGACCCCTGCAAGTGCCGGG
CTTGATGAGCTCCAGGTGCAGATGGGCGGCCACCCGACTGAGGTCTGTGCCTCATGAACATGGTGTGCTGCCTGA
GGAGCTGCTGGACGACGAGGAGTATGAGGAGATCGTGGAGGATGTGCGGGACGAGTGCAGCAAGTACGGGCTTGT
CAAGTCCATCGAGATCCCCCGCCTGTGGACGGCGTCGAGGTGCCCGCTGCGGAAAGATCTTTGTGGAGTTCAC
CTCTGTGTTTGAAGTCCAGAAAGCCATGCAGGGCCTGACGGGCCGCAAGTTCGCCAACAGAGTGGTTGTACAAA
ATACTGTGACCCCGACTCTTATCACCGCCGGGACTTCTGGT**TAG**AGGCGGCTGGGGGAGGGTGGGGGCAGGGCTGG
CTGGGGGCTTCTCCCCACTCCCCGGCCCCCCCCCTTATCCCCCTCTGAAGACGATGGGCAGAGGAGTGACAGCCGCA
GACACACGACAGCCGGCAGCAACTGGAATGGCAGCAATTAAGGGTGGGGAGCGGGGGTGGGGGGTGGGGGGT
AGGGCAGGGAGGGGACTGGGGAAGTGCGCACACAGCCCCACACAGACAACACGCACG

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FIGURE 5620

MSDFDEFERQLNENKQERDKENRHRKRSHSRSRSDRKRSSRSRDRNRDQRSASRDRRRRSKPLTRGAKEEHGG
LIRSPRHEKKKKVRKYWDVPPPGFEHITPMQYKAMQAAGQIPATALLPTMTDPGLAVTPTPVPVVGSMTRQARR
LYVGNIPFGITTEAMMDFFNAQMRLGGLTQAPGNPVLAVQINQDNFAFLEFRSVDETTQAMAFDGIIFQGQSLK
IRRPHDYQPLPGMSENPSVYVPGVVSTVVPDSAHKLFIGGLPNYLNDDQVKELLTSFGPLKAFNLVKDSATGLSK
GYAFCEYVDINVTDAQAIAGLNGMQLGDKKLLVQRASVGAKNATLVSPSTINQTPVTLQVPLMSSQVQMGHPT
EVLCLMNMVLPPELLDDEEYEEIIVEDVRDECSKYGLVKSIEIPRPVDGVEVPGCGKIFVEFTSVFDCQKAMQGLT
GRKFANRVVVTKYCDPDSYHRDFW

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FIGURE 5621

GGGAAGGCATTTGAGCCATTTTGGGGTGTATAGATGTAGTAAGACGATGGGTTCCGTAGTGGGGAGAGGTGACTA
GACTTCGAGGTGCTAAGTGTAGGAACAGGATGGAAAAGCCCTAGTGAAATGTGGGGGAATTGGGTTAGTGGGGCTC
TGGGGAGGTACCTAGAGAGGAAGTGAAGGAGGCCACGGAATATGAAGATGGGGAGGCCCTGCGGCATGTAGTGGG
GACGGAGGGCCAGGAGGCCGATACGGGGGCCGGTGGGGGGGTAGGGGGCGGCAAAGGGAGGGGAAGTAAACTGAA
CTGGGGCTGGGCAACAGGAAAAAAGAAGAAACACAGATTAGAGAAATCTCGGCGGTGAGGAGGCCCGGGTCTA
AGATGTAAAAGAGGTAAACAGATTTAGGGATTGATTGTCTGCTGGGGTGGGTTGAGAGGAGAAAAGGGAAGAAAAG
TCGGGGGACTACGTCTCAGACCTGACCTGAGTGGTGAGAGGTGGACCCAGGAGGAGTGGCAGGTGGTGGCGGGG
TTTTGCAGAGCTCAGTTGGAGGCCCTCTCCGAGGCAGCTTGATGGAACGTGGGAGAGCCGGGCTGGAGTCACAGT
TTTTATTTTGTAGGGAGGTAGTCAGTGGCGCACAAAGGGTAACAAGCAGTGATAGTGGGGATGCTTTCCATTTT
AGGAAACTTTTCTAAAAGGAAGTGGAATTTTAACTAATCTCCCCTCCGCCGCTCCCAGCTGCCACTCCAGATG

CTGCTGCTGCCGCCGCGGCCACCCACCCCTCGGTCTCTCTCCGGAGGCCATGGACCCACCGCCCCCAAGGCT
CCCCCTTTCCCAAGGCGGAAGGCCCTCTCTCCACTCCTTCCCTCGGCGGCGGGGCCCCGACCCCGCGGCTGGGC
CGCCACCTCCTCATCGACGCCAATGGGGTCCCCTACACATACACGGTGCAGCTGGAGGAGGAGCCCCGGGGCCCCG
CCCCAGCGCGAGGCGCCCCAGGAGAGCCCGGCCCTCGCAAGGGCTACAGCTGCCCGGAGTGCGCCGTGTCTTT
GCCAGCCCTCTGCGGCTGCAGAGCCACCGCGTGTGCGACTCGGACCTCAAGCCCTTCACGTGCGGCGCCTGCGGC
AAGGCCTTCAAGCGCTCCAGCCACCTGTGCGGGCATGCGGCCACGCACCGCGCCCCGCGCCGGGCGCCGACACC
TGCCCGCTCTGCCACGCGCTTCCAGGACGCGCGGAGCTGGCGCAGCACGTGCGCCTCCACTAAGCTCGAGAC
CCGGCCTGTGCTGCCCTGCCCGTCTCAGGGCCACCAAGTCTGACCCACACAGCGTCACTCACTCCCACACACACC
CCCTGGCTCTGCTGAGGTTACTGCCTTACCCTGGGCCTCAGCCCCACCTTCCAAAGGGAGGAGCATCATTCCTTC
CTTACCCCTTTCTAGCTGTGTGATGTAGACCAAAGTCGTTGCCCCCTCCCTGGGCCTGGGAACCAGTCGGAACTG
GGTTCAGTCCAGCTGTGCTGTGTGAGCCTGTGCAAGTGACATGACCTCTCTAAACCTTGGTTTTCTGCTCTCTG
GAGCGGTGAACCGGTGGTTGTCTGCGGGGAAGAGATGATAAAGAGCACGGGCACGGTCTGGTTCATTTCTGTATC
TACCCCTTCCGCCACGCCCCGACCCTTTGCTCAATAAACATTCCGCACTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5622

MLLLPPRPPHPRSSSPEAMDPPPPKAPFPKAEGPSSTPSSAAGPRPRLGRHLLIDANGVPYTYTVQLEEEPRG
PPQREAPPGEFGPRKGYSCPECARVFASPLRLQSHRVSHSDLKPFTCGACGKAFKRSSHLSRHRATHRARAGPPH
TCPLCPRRFQDAAELAQHVR LH

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FIGURE 5623

CCTTGTCGAAGGACCAAAGGCGACCGGTGCAGGTGCACGACGCCAGCTCCCTTCTGGGGGGCCGGGGCCTGGGGG
TTGCCATGGCCCCCAGCCACCTGTCA GTGCGGGAGATGAGGGAAGATGAGAAGCCCCCTGGTGCTGGAGATGCTGA
AGGCCGGCGTGAAGGACACGGAACCGCGTGGCCCTCCATGCCTTGACACGGCCGCCGGCCCTGCTCCTCCTGG
CGGCGGCCAGCAGCGGCCTGCGCTTTGTCTGGCTTCCTTCGCCCTGGCCCTCCTCCTGCCGGTGTTCCTGGCTG
TGGCCGCCGTGAAGCTGGGCCTGCGGGCCCGATGGGGCTCGCTGCCTCCGCCGGGTGGCCTGGGGGGCCCCCTGGG
TGGCCGTGCGGGGCTCCGGTGACGTGTGTGGGGTCTGGCTCTGGCCCTGGCACAAATGCAGGGGACGGGGCCC
GGGTCACCCGCCTGTCTGTCTCTCGCTGGCACCGCCGCCGGGGCGTGGGCAGGAGGCTGCTGGCCTTCGCGGAGG
CCCGGGCTCGGGCCTGGGCTGGGGGCATGGGGGAGCCCCGGGCCCGGCTCGTGGTCCCCGTGGCTGTGGCCGCCT
GGGGGGTGGGAGGGATGCTGGAGGGCTGTGGCTACCAGGCCGAGGGGGGCTGGGGCTGCCTGGGCTACACGCTGG
TGAGGGAATTACAGCAAAGACCTGTGAAGCTACAGACTGACAGCCAGGGCAGGGGAGGAGGGAGGGGCGCCAGCAC
CTGATGATCGCCTACTGTCTGCGGGTTCTTTTACCTGCTCTCCCTCAGTGAGTCCTCAACCACCTTGGGCCCAGA
AACAGAGGCCTGCCGAGGGGAGGAGCCTGGCCTCTGTCCACCCGTCAGCAGTGTGAAGTCTGTTGTGTTTGAAGT
TCTCAGAGTGGAATGACTCCTTTTCTTCTGGCCCTCGGGGGCCTCTCGAGGTCAGCCTCTCCAACCCCTACCT
CAGCTCCTGTCTGCACTGAGAAACCTCCCCGGGTGATGTCTGCAAAGTCTGTGCTGTCCGTGCCCCAGGCTGGGA
GAGCTATCTGGGGAGGGGGAGAGGAGGCCGAGCAGAATACACCCAGAGTTAGGGTTTGC GACTCCGCCTCCCTG
GGACCTGGATTGGGTGAGATGCCTGTCTTGGAGGGGACAAGGTTGACTGCTTAGGAGGCGCGACGCACAGGGCT
GCCAGGCCTGGCCCCCTCTCTGGGAAGGTTGAGAGCTGAGACGGGCAGCCCTGTCCCTTCTCCAGATCCGTCTGG
TTTTTTACACCGTTTGTTAATAAAGCCTGAAACCGC

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FIGURE 5624

MAPSHLSVREMREDEKPLVLEMLKAGVKDTENRVALHALTRPPALLLLAAASSGLRFVLASFALALLPVFLAVA
AVKLGLRARWGS LPPP GGLGGPWVAVRGSGDVCGLALAPGTNAGDGARVTRL SVSRWHRRRGVGRLLAFAEAR
ARAWAGGMGEPRARLVVPVAVAAWGVGGMLEGCGYQAEGGWGCLGYTLVREFSKDL

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FIGURE 5625

CGGCGGCGGCGACAGGACCGAGGGGCCCTTAGTTGGTGGGCAAGTCGGGGATCCCAGAAAGAGAAGCGTGACCCGG
AAGCGGAAACGGGTGTCCGTCCCAGCTCCGGCCTGCCAGTGAGCTTCTACCATCATGGACCTATTGTTTCGGGCGC
CGGAAGACGCCAGAGGAGCTACTGCGGCAGAACCAGAGGGCCCTGAACCGTGCCATGCGGGAGCTGGACCGCGAG
CGACAGAACTAGAGACCCAGGAGAAGAAAATCATTGCAGACATTAAGAAGATGGCCAAGCAAGGCCAGATGGAT
GCTGTTTCGCATCATGGCAAAAGACTTGGTGCGCACCCGGCGTTATGTGCGCAAGTTTGTATTGATGCGGGCCAAC
ATCCAGGCTGTGTCCCTCAAGATCCAGACACTCAAGTCCAACAACTCGATGGCACAAGCCATGAAGGGTGTCCACC
AAGGCCATGGGCACCATGAACAGACAGCTGAAGTTGCCCCAGATCCAGAAGATCATGATGGAGTTTGAGCGGCAG
GCAGAGATCATGGATATGAAGGAGGAGATGATGAATGATGCCATTGATGATGCCATGGGTGATGAGGAAGATGAA
GAGGAGAGTGATGCTGTGGTGTCCCAGGTTCTGGATGAGCTGGGACTTAGCCTAACAGATGAGCTGTCTGAACCTC
CCCTCAACTGGGGGCTCGCTTAGTGTGGCTGCTGGTGGGAAAAAGCAGAGGCCGCGAGCCTCAGCCCTAGCTGAT
GCTGATGCAGACCTGGAGGAACGGCTTAAGAACCTGCGGAGGGACTTGAGTGCCCCTGCCACTCCGAGATAACCAG
TGATGCCCAGGATCTTTTACCACAACCCCTCTGTAATAAAAGAGATTTGACACTAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 5626

MDLLFGRRKTPEELLRQNQRALNRAMRELDREERQKLETQEKKIIADIKKMAKQGQMDAVRIMAKDLVRTRRYVRK
FVLMRANIQAVSLKIQTLKSNN SMAQAMKGVTKAMGT MNRLKLPQIQKIMMEFERQAEIMDMKEEMMNDAIDDA
MGDEEDEEESDAVVSQVLDELGLSLTDELSNLPSTGGSLSVAAGGKAEAAASALADADADLEERLKNLRRD

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FIGURE 5627

GGCGCGGGGCGAGCGGTTGTGCTTGTGCTTGTGGCGCGTGGTGC GG GTTTCGGCGGGCGGCTGAGGAAGAAGCGC
GGGCGGGCGCTTCGGGAGGCGAGCAGGCAGCAGTTGGCCGTGCCGTAGCAGCGTCCCGCGCGCGGGCGGGCAGCGG
CCCAGGAGGCGCGTGGCGGGCGCTCGGCCTCGCGGGCGGGCGGGCGGCAGCGGCCAGCAGTTGGCGGGCAGCGCG
TCTGCGCTGCGCGGGCGGGCCCCGCGCCCCCTCCTCCCCCCTGGGCGCCCCCGGGCGGCGTGTGAATGCGGCCTC
CGCGGGCGGCAGCCTCGGCAGCAGCGGCCTCGGCCGCTCTGGCAGCCCCGGGCCCCGGGCGAGGGCTCCGCTGGCGG
CGAAAAGCGCTCCACCGCCCCCTTCGGCCGCGAGCCTCGGCCTCTGCCTCAGCCGCGGGCGTCTGTCGCCCGCGGGGG
CGGCGCCGAGGCGCTGGAGCTGCTGGAGCACTGCGGCGTGTGCAGAGAGCGCCTGCGACCCGAGAGGGAGCCCCG
CCTGCTGCCCTGTTTGTCACTCGGCCTGTAGTGCCTGCTTAGGGCCCCGCGGGCCCCCGCGCCGCCAACAGCTCGGG
GGACGGCGGGGGCGGGCGGGCGACGGCACCGTGGTGGACTGTCCCGTGTGCAAGCAACAGTGCTTCTCCAAAGACAT
CGTGGAGAATTATTTTCATGCGTGATAGTGGCAGCAAGGCTGCCACCGACGCCAGGATGCGAACCAGTGCTGCAC
TAGCTGTGAGGATAATGCCCCAGCCACCACTACTGTGTGGAGTGCTCGGAGCCTCTGTGTGAGACCTGTGTAGA
GGCGCACCGAGCGGGTGAAGTACACCAAGGACCATACTGTGCGCTCTACTGGGCCAGCCAAGTCTCGGGATGGTGA
ACGTACTGTCTATTGCAACGTACACAAGCATGAACCCCTTGTGCTGTTTTGTGAGAGCTGTGATACTCTCACCTG
CCGAGACTGCCAGCTCAATGCCCCACAAGGACCACCACTAGTTCCTTAGAGGATGCAGTGAGGAACCAGCGCAA
GCTCCTGGCCTCACTGGTGAAGCGCCTTGGGGACAAACATGCAACATTGCAGAAGAGCACCAGGAGGTTTCGCAG
CTCAATCCGCCAGGTGTCTGACGTACAGAAGCGTGTGCAAGTGGATGTCAAGATGGCCATCCTGCAGATCATGAA
GGAGCTGAATAAGCGGGGCGGTGTGCTGGTCAATGATGCCAGAAGGTGACTGAGGGGCGAGGAGCGCCTGGA
GCGGCAGCACTGGACCATGACCAAGATCCAGAAGCACCAGGAGCACATTCTGCGCTTTGCCTCTTGGGCTCTGGA
GAGTGACAACAACACAGCCCTTTTGTCTTCTAAGAAGTTGATCTACTTCCAGCTGCACCGGGCCCTCAAGATGAT
TGTGGATCCCGTGGAGCCACATGGCGAGATGAAGTTTTCAGTGGGACCTCAATGCCTGGACCAAGAGTGCCGAGGC
CTTTGGCAAGATTGTGGCAGAGCGTCTGGCAGCAGCCAGCCATGGAGGTGCAGGAAGGCTATGGCTTTGGGTGAGG
AGATGATCCCTACTCAAGTGCAGAGCCCCATGTGTGAGGTGTGAAACGGTCCCGCTCAGGTGAGGGGCGAGGTGAG
CGGCTTATGCGCAAGGTGCCACGAGTGAGCCTTGAACGCCTGGACCTGGACCTCACAGCTGACAGCCAGCCACC
CGTCTTCAAGGTCTTCCCAGGCAGTACCAGTGAAGTTCAGTGGGACCTCAACCTTATTGTTATTGAACGTGGCGCTGCCGCTGC
AGCTACCGGCCAGCCAGGGACTGCGCCTGCAGGAACCCCTGGTGGCCCCACCCCTGGCTGGCATGGCCATTGTCAA
GGAGGAGGAGACGGAGGCTGCCATTGGAGCCCTCCTACTGCCACTGAGGGCCCTGAGACCAACCTGTGCTTAT
GGCTCTTGGCGAGGGTCTGCTGCTGAGGGTCCCCGCTGGCCTCACCTAGTGGCAGCACCAGCTCAGGGCTGGA
GGTGGTGGCTCCTGAGGGTACCTCAGCCCCAGGTGGTGGCCCGGAACCCCTGGATGACAGTGCCACCATTTGCCG
TGTCTGCCAGAAGCCAGGCGATCTGGTTATGTGCAACCAGTGTGAGTTTTTGTTCACCTGGACTGTCACCTGCC
GGCCCTGCAGGATGTACCAGGGGAGGAGTGGAGCTGCTCACTCTGCCATGTGCTCCCTGACCTGAAGGAGGAGGA
TGGCAGCCTCAGCCTGGATGGTGCAGACAGCACTGGCGTGGTGGCCAAGCTCTCACCAGCCAACCAGCGGAAATG
TGAGCGTGTACTGCTGGCCCTATTCTGTACGAACCCTGCCGCCCCCTGCATCAGCTGGCTACCGACTCCACCTT
CTCCCTGGACCAAGCCGGTGGCACCCCTGGATCTGACCCTGATCCGTGCCCGCCTCCAGGAGAAGTTGTACCTCC
CTACAGCTCCCCACAGGAGTTTGCCAGGATGTGGGCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAA
GGCAGACGTGCAGTCCATCATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAA
GTTCTCTGCTGTGCTGGTGGAGCCCCCGCCGATGAGCCTGCCTGGTGTGCTGGCCTGAGTTCCCAGGAGCTGTCTGG
TGGCCCTGGTGATGGCCCCTGAGGCTGGAGCCCCCATGGCCAGCCAGCCTGGCTCTGTTCTCTGTCTGTCTGTCACC
CCATCCCCACTCCCTGGTGGCCTGACTCCCACTCCCTGGTGGCCCCATCCCCCAGTTCCTCACGATATGGTTTT
TACTTCTGTGGATTTAATAAAAACTTACCAGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5628

MAASAAAASAAAASAAASGSPGPGEESAGGEKRSTAPSAASASASAAAASSPAGGGAEALELLEHCGVCRERLRPE
REPRLLPCLHSACSACLGPAAPAAANSSGDGGAAGDGTVVDCPVCKQQCFSKDIVENYFMRDSGSKAATDAQDAN
QCCTSCEDNAPATSYCVECSEPLCETCVEAHQVRKYTKDHTVRSTGPAKSRDGERTVYCNVHKHEPLVLFCESCD
TLTCRDCQLNAHKDHQYQFLEDAVRNQRKLLASLVKRLGDKHATLQKSTKEVRSSIRQVSDVQKRVQVDVKMAIL
QIMKELNKRGRVLVNDAAQKVTEGQQERLERQHWTMTKIQKHQEHILRFASWALESDNNTALLSKKLIYFQLHRA
LKMIVDPVEPHGEMKFQWDLNAWTKSAEAFGKIVAERP GTNSTGPAPMAPPRAPGPLSKQSGSSQPMEVQEGYG
FGSGDDPYSSAEPHVSGVKRSRSGEGEVSGLMRKVPRVSLERLDDLTLTADSQPPVFKVFPGSTTEDYNLIVIERG
AAAAATGQPGTAPAGTPGAPPLAGMAIVKEEETEAAGAPPTATEGPETKPVLMAAEGPGAEGPRLASPSGSTS
SGLEVVAPEGTSAPGGGPGTLDDSATICRVCQKPGDLVMCNQCEFCFHLDCPLPALQDVPGEWSSCSLCHVLPDL
KEEDGSLSLDGADSTGVVAKLSPANQRKCERVLLALFCHEPCRPLHQLATDSTFSLDQPGGTLDLTLIRARLQEK
LSPPYSSPQEFQAQDVGRMFKQFNKLTEDKADVQSIIGLQRRFFETRMNEAFGDTKFSAVLVEPPPMSLPGAGLSSQ
ELSGGPGDGP

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FIGURE 5629

ATTTATTTATTGTTCTGGTCACTGTCTCTTTGAGGATTGGTATCTCTGCTCCAGAAAAGATGGCAGCCTCTTTC
TTCTCTGATTTTGGTCTTATGTGGTATCTGGAGGAGCTCAAAAAGGAGGAGTTCAGGAAATTTAAAGAACATCTC
AAGCAAATGACTTTGCAGCTTGAAGTCAAGCAGATTCCCTGGACTGAGGTCAAAAAGCATCCCGGGAAGAACTT
GCAAACTCTTGATCAAGCACTATGAAGAACAACAAGCTTGAACATAACCTTAAGAATCTTTCAAAAGATGGAT
AGAAAAGGATCTCTGCATGAAGGTGATGAGGGAGAGAACAGGATACACAAAGACCTATCAAGCTCACGCAAGCAG
AAATTCAGCCGCTTATGGTCCAGCAAGTCTGTCACTGAGATTACCTATACTTTGAGGAGGAAGTCAAGCAAGAA
GAATGTGACCATTTGGACCGCCTTTTGTCTCCCAAGGAAGCTGGGAAACAGCCACGTACAGTGATCATTCAAGGA
CCACAAGGAATTGGA AAAACGACACTCCTGATGAAGCTGATGATGGCCTGGTCCGACAACAAGATCTTTCCGGGAT
AGGTTCTGTACACGTTCTATTTCTGCTGCAGAGAACTGAGGGAGTTGCCGCCAACGAGTTTGGCTGACTTGATT
TCCAGAGAGTGGCCTGACCCCGCTGCTCCTATAACAGAGATCGTGTCTCAACCGGAGAGACTCTTGTTCGTCATC
GACAGCTTGAAGAGCTGCAGGGCGGCTTGAACGAACCCGATTCCGATCTGTGTGGTGACTTGATGGAGAAAACGG
CCGGTGCAGGTGCTTCTGAGCAGTTTGTCTGAGGAAGAAGATGCTCCCGGAGGCCCTCCCTGCTCATCGCTATCAAA
CCCGTGTGCCCGAAGGAGCTCCGGGATCAGGTGACGATCTCAGAAATCTACCAGCCCCGGGGATTCAACGAGAGT
GATAGGTTAGTGATTTCTGCTGTTTCTTCAAAGACCCGAAAAGAGCCATGGAAGCCTTCAATCTTGTAAGAGAA
AGTGAACAGCTGTTTTCCATATGCCAAATCCCGCTCCTCTGCTGGATCCTGTGTACCAGTCTGAAGCAAGAGATG
CAGAAAGGAAAAGACCTGGCCCTGACCTGCCAGAGCACTACCTCTGTGTACTCCTCTTTTCGCTTTAACTGTTC
ACACCTGAGGGTGCCGAGGGCCCCGACTCCGCAAACCCAGCACCAGCTGAAGGCCCTGTGCTCCCTGGCTGCAGAG
GGTATGTGGACAGACACATTTGAGTTTTGTGAAGACGACCTCCGGAGAAATGGGGTTGTTGACGCTGACATCCCT
GCGCTGCTGGGCACCAAGATACTTCTGAAGTACGGGAGCGTGAGAGCTCCTACGTGTTCTCCACGTGTGTATC
CAGGAATCTGTGCCGCTTGTCTATTTGCTCAAGAGCCACCTTGATCATCCTCACCCAGCTGTGAGATGTGTA
CAGGAATCTAGTTGCCAATTTGAAAAGCAAGGAGAGCACATTGGATTTTTTGGGGTGTTTCTAACTGGC
CTTTTAAATAAAAAGGAACAAGAAAAGTGGATGCGTTTTTGGCTTCCAAGTGTCCCAAGAGATAAAGCAGCAA
ATTCACAGTGCTGAAGAGCTTAGGGGAGCGTGGCAATCCTCAGGACAGGTGGATTCTTGCGGATATTTTAC
TGCTCTTTTGAATGCAGGATCCTGCCTTTGTGAAGCAGGAGTGAACCTCCTCCAAGAGCTAACTTTTCATATT
ATTGACAACGTGGACTTGGTGGTTTTCTGCCTACTGCTTAAAATACTGCTCCAGCTTGAGGAACTCTGTTTTTCC
GTTCAAAATGCTTTTAAAGAAAGAGGATGAACACAGCTCTACGTCGGATTACAGCCTCATCTGTTGGCATCACATC
TGCTCTGTGCTCACCACCAGCGGGCACCTCAGAGAGCTCCAGGTGCAGGACAGCACCCCTCAGCGAGTCGACCTT
GTGACCTGGTGTAACCAGCTGAGGCATCCAGCTGTGCGCTTCAAGAGCTTGGAATAAATAACGCTTTCTTTTCT
GGCCAGAGTGTTCTGCTCTTTGAGGTGCTCTTTTATCAGCCAGACTTGAAATACCTGAGCTTACCCCTACGAAA
CTCTCTCGTGATGACATCAGGTCCCTCTGTGATGCCTTGAACCTACCAGCAGGCAACGTCAAAGAGCTAGCGCTG
GTAAATGTGACCTCTCACCCATTGATTGTGAAGTCCTTGCTGGCCTTCTAACCACAACAAGAAGCTGACGTAT
CTGAATGTATCCTGCAACCAGTTAGACACAGGCGTGCCCTTTTGTGTGAAGCCCTGTGCAGCCAGACACGGTC
CTGGTATACCTGATGTTGGCTTTCTGCCACCTCAGCGAGCAGTGCTGCGAATACATCTCTGAAATGCTTCTGCGT
AACAAGAGCGTGCGCTATCTAGACCTCAGTGCCAATGTCTGAAGGACGAAGGACTGAAAACCTCTCTGCGAGGCC
TTGAAACATCCGACTGCTGCCTGGATTCACTGTGTTTGGTAAATGTTTTATCACTGCTGCTGGCTGTGAAGAC
CTCGCCTCTGCTCTCATCAGCAATCAAAACCTGAAGATTCTGCAAATGGGTGCAATGAAATCGGAGATGTGGGT
GTGAGCTGTTGTGTCGGGCTCTGACGCATACGGATTGCCGCTTAGAGATTCTTGGGTGGAAGAATGTGGGTTA
ACGAGCACCTGCTGTAAGGATCTCGCGTCTGTTCTCACCTGCAGTAAGACCTTGACGAGCTCAACCTGACCTTG
AACACCTTGAACACACAGGGGTGGTGTACTCTGTGAGGCCCTGAGACACCCAGAGTGTGCCCTGCAGGTGCTC
GGGCTGAGAAAACTGATTTTGATGAGGAAACCCAGGCATTTGACGGCTGAGGAAGAGAGAAATCTAACCTG
ACCATCACAGACGACTGTGACACAATCACAAGGGTAGAGATCTGATTGCGAGGAACCTGGGCTCTGACTCGAACA
CCTGCAAAGGACAGGGACTGGGACCGTTACTTACATGACACTGCACCCAGGAGATACAAATCATTGATACTCTGA
GTTGTGAGATTTCTGGCACCCATTATAGATTTGATATGATACACGTGGTTTTTATGTGCTCTGTGGCCTTGGA
TGAGTCACTGAAAGGCCCTTCATGGTCTCTCGGTCTCACAAGGACCTCTTAACCCCTCAATAAAGTGTTACATTC
TAAACATTGG

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FIGURE 5630

MAASFFSDFGLMWYLEELKKEEFRKFKEHLKQMTLQLELKQIPWTEVKKASREELANLLIKHYEEQQAWNITLRI
FQKMDRKDLCKMVMRERTGYTKTYQAHAKQKFSRLWSSKSVTEIHLYFEEVKQEECDHLDRLFAPKEAGKQPR
VIIQGPQGIGKTTLLMKLMMASDNKIFRDRFLYTFYFCCRELRELPTSLADLISREWPDPAAPITEIVSQPER
LLFVIDSFEELQGGLENEPDSDLGDLMEKRPVQVLLSSLLRKKMLPEASLLIAIKPVCPKELRDQVTISEIYQPR
GFNESDRLVYFCCFFKDPKRAMEAFNLVRESEQLFSICQIPLLCWILCTSLKQEMQKGKDLALTCQSTTSVYSSF
VFNLFTPEGAEGPTPQTQHQLKALCSLAAEGMWTDTFEFCEDDLRRNGVVDADIPALLGTKILLKYGERESSYVF
LHVCIQEFCAALFYLLKSHLDHPPAVRCVQELLVANFEKARRAHWIFLGCFLTGLLNKKEQEKLDAFFGFQLSQ
EIKQQIHQCLKSLGERGNPQGQVDSLAIIFYCLFEMQDPAFVKQAVNLLQEANFHIIDNVDLVVSAYCLKYCSSLR
KLCFSVQNVFKKEDEHSSTSDYSLICWHHICSVLTTSGHLRELQVQDSTLSESTFVTWCNQLRHPSCRLQKLGIN
NVSFSGQSVLLFEVLFYQPDLYLSFTLTKLSDIRSLCDALNYPAGNVKELALVNCHLSPIDCEVLGLLTNN
KKLTYLNVSCNQLDGTGVPLLCALCSPDTVLVYLMALFCHLSEQCCEYISEMLLRNKSVMRYDLNANVLKDEGLK
TLCEALKHPDCCLDSLCLVKCFITAAGCEDLASALISNQNLIKILQIGCNEIGDVGVLQVLLCRALHTDCRLEILGL
EECGLTSTCCKDLASVLTCSKTLQQLNLTLNTLDHTGVVVLCEALRHPECALQVLGLRKTDDEETQALLTAEED
RNPNLTTITDDCDTITRVEI

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FIGURE 5631

GTGGGGCGCGGGCAATGGAGCAGAGTATGGGAGAACGCGCTCGGAGTAAAGCACACGGCGCGGGCGAAGGCGTGGC
GGGAGTGTGCGGGCGCCGGACCCGGGAAGCTGGCCTGGGCGCCGGGTCTCGAGTGCAGGCCTTTGTTCTGAAGTGT
CCAGGCCGGCCTTGCGGGCTCGGGACTGAGGAATGGAGCCCGTTCGCGGGCGGGGCGGGAAAGGAAGGTTCAAGT
CTCTCGGGTTGATGCGCAAGTTTCCGTCCCCATCGGCCGGACAGATTAGAATCCTTTTCAGGTGCTAGATGGCGGC
TGCAGAGGCTGTGCATCACATACACCTGCAGAACTTCTCACGCTCTCTGCTTGAGACCCTCAATGGGCAGAGGCT
TGGGGGACACTTCTGTGACGTGACTGTGCGCATTCGTGAAGCTTCGCTGCGTGCCACCCTGCGTGCTGGCGGC
CGGCTCACCCCTTCTTCCAAGACAAGCTGCTGCTCGGCCACTCTGAGATCCGTGTGCCTCCGGTGGTGCCCGCGCA
GACAGTGCGACAGCTGGTAGAGTTCTGTACAGCGGTTGCTCGTTGTGGCGCAGGGTGAAGCCCTGCAGGTGCT
CACGGCCGCGTCAGTGCTTCGCATACAGACAGTTATCGACGAATGCACGCAGATTATCGCCCGCGCTCGAGCCCC
GGGCACCTCTGCGGCCACGCCCCCTGCCACCCCTGTGCCCCGCCACTCGCACCTGCGCAGCTGCGTCACCGCCT
GCGCCACCTGCTGGCTGCACGTCCCCCGGGGACCCCGGTGCTGCACACAGCCGTAAGCAGCGCCAGCCCGCGCG
TTTGCAGCTGCCAGCGCCCCAACACCTGCCAAGGCTGAGGGGCTGATGCTGACCCCTCACTGTCCGCGGGCCCC
TGATGACCAGGTTGACGAGGATGACGAGGAAAGTGACGATGAGACCGATGGCGAGGATGGCGAAGGTGGCGGGCCC
AGGCGAGGGCCAGGCACCTCCTTCTTCCAGACTGTGCTGCTGGCTTCTCACTGCTGCTGCTGACAGCGCGTG
CGAGGAGCCCCCTGCACCCACTGGCCTCGCTGACTACAGTGGTGCCGGGAGAGATTTTCTTCGGGGAGCTGGGTC
AGCTGAGGACGTATTTCCAGACAGCTATGTATCCACTTGGCACGACGAGGATGGCGCTGTCCCCGAAGGCTGTCC
CACTGAGACCCCTGTCCAGCCCGACTGCATACTGTCTGGATCCCGCCCGCTGGTGTGAAGACCCAGGGCCGCC
CGTTGCACTCTTCCCCTTCACTTGGGTGCCCCCTGGGCCACCCGCACCACCCCTTCAGCACCATCGGGGCCAGC
CCCTGCGCCCCACCCGCCCTTCTACCCACACTCCAGCCCGAGGCAGCCCCAGTACTCAGCTGGGGGAGGTCCC
GGCTCCCTCTGCTGCTCCCACCACGGCCCCCTCAGGCACCCCTGCTCGCACCCACAGGTGCTGAGCCACCTACGTA
TGAGTGACGCCACTGTGCAAGACGTTGAGCTCCCGGAAAACTACACCAAGCACATGTTTATCCACTCGGGGGA
GAAGCCGCACCAAGTGCGCCGTGTGCTGGCGATCCTTCTCTCTACGCGACTACCTGCTCAAACACATGGTCACGCA
CACCGGCGTGCGCGCCTTCCAGTGCGCCGTCTGCGCCAAGCGCTTCACGCAGAAGAGCTCGCTCAACGTGCACAT
GCGCACTCACCGGCCGAGCGCGCGCCCTGCCCCGCTGCGGCAAGGTCTTCTCGCACCGCGCGCTGCTGGAGCG
CCACCTGGCGGCGCACCTGCGCCCCTGATGGCGCTGGGGCTGGCCTCGCCACGGTGGATCCGGGGCCTCCCGC
ACAGTCGGCCACGCCCCTGCGGGACCCGTGGTTCCCGCCACTAGACCACGCTCCCTCCTGAGCGCAGGTCTCT
CTCTCCCTTACCCCTTCTTCCATACCAGGGCCTAAGTCCGCCTTACTCCTCTCCTCCATGTACTTGAACCCTCCA
GGTGGTGCCGGCTGGGGCTGGGGCTGGTTAGACCACTTCTGAGAAGTGGACTATTTCTGCGTAAACCGGGCGC
TCAGGCGCTTGGACCCGGCCCCAAGATTTGACTCCGTTCTCACCCGCCCTCTCCTGGGGTGGTGGTGGGGGCTG
GGGGGCCGCTTGCTGCCCCAGGGTCAGGCTGGGCAAGGTCCCTAGCTCTCTACCCAAGCTGTTACTCCCTCATG
GGGCGCTAAGGAGACTCAAGTGGAACCATCATATATGGGGCTGGGCCTCGGGACTCTCGCTCTAATAAAGGAC
GTAGGCCATGGGGCTAAACCACGAAA

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FIGURE 5632

MAAAEAVHHIHLQNFSRSLLETNLNGQRLGGHFCDTVRIREASLRAHRCVLAAGSPFFQDKLLLGHSEIRVPPVV
PAQTVRQLVEFLYSGSLVVAQGEALQVLTAASVLRIQTVIDECTQIIARARAPGTSAPTPLPTVPVPPPLAPAQLR
HRLRHLLAARPPGHPGAAHSRKQRQPARLQLPAPPTPAKAEGPDADPSLSAAPDDRGEDEDEESDDDETGDGEDGEG
GGPGEGQAPPSFPDCAAGFLTAAADSACEEPPAPTGLADYSGAGRDFLRGAGSAEDVFPDSYVSTWHDGAVPE
GCPTETPVQPDICILSGSRPPGVKTPGPPVALFPFHLGAPGPPAPPPSAPSGPAPAPPPAFYPTLQPEAAPSTQLG
EVPAPSAAPTTPASGTPARTPGAEPPTYECSHCRKTFSSRKNYTKHMF IHSGEKPHQCAVCWRSFSLRDYLLKHM
VTHTGVRAFQCAVCAKRFQKSSSLNVHMRTHRPERAPCPACGKVF SHRALLERHLAAHPAP

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FIGURE 5633

GGCGGCGCGTGTTCTACGCCGAGTGACAGAGACGCTCAGGCTGTGTTCTCAGGATGACCGAGTGGGAGACAGCAG
CACCAGCGGTGGCAGAGACCCAGACATCAAGCTCTTTGGGAAGTGGAGCACCGATGATGTGCAGATCAATGACA
TTTCCTGCAGGATTACATTGCAGTGAAGGAGAAGTATGCCAAGTACCTGCCTCACAGTGCAGGGCGGTATGCCG
CCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGTGGAGCGCCTCACTAACTCCATGATGATGCACGGCCGCAACA
ACGGCAAGAAGCTCATGACTGTGCGCATCGTCAAGCATGCCTTCGAGATCATACACCTGCTCACAGGCGAGAACC
CTCTGCAGGTCTTGGTGAACGCCATCATCAACAGTGGTCCCCGGGAGGACTCCACACGCATTGGGCGCGCCGGGA
CTGTGAGACGACAGGCTGTGGATGTGTCCCCCTGCGCCGTGTGAACCAGGCCATCTGGCTGCTGTGCACAGGCG
CTCGTGAGGCTGCCTTCCGGAACATTAAGACCATTGCTGAGTGCCTGGCAGATGAGCTCATCAATGCTGCCAAGG
GCTCCTCGAACTCCTATGCCATTAAGAAGAAGGACGAGCTGGAGCGTGTGGCCAAGTCCAACCGCTGATTTTCCC
AGCTGCTGCCCAATAAACCTGTCTGCCCTTTGGGGCAGTCCCAGCCAAAA

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FIGURE 5634

MTEWETAAPAVAETPDIKLFGKWSTDDVQINDISLQDYIAVKEKYAKYLPHSAGRYAAKRFRKAQCPIVERLTNS
MMMHGRNNGKKLMTVRIVKHAFEIIHLLTGENPLQVLVNAIINSGPREDSTRIGRAGTVRRQAVDVSPILRRVNQA
IWLLCTGAREAAFRNIKTIAECLADELINAAGSSNSYAIKKKDELERVAKSNR

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FIGURE 5635

CAGAGGTTGTGGTGAGCCGAGATCACAGCACTGCACTCCAGCCTGGGTGACAAGAGCAAGACTCCGTCTCAAAAT
AAATAAATAAAAAATAAAAAATAAACATGATGATCACAGATGCAGTCACATTTTCTGAGTTCTTGTCTCTCTGCCA
GTGCCACCCAGATAGCCTCACAAAACCTTTGACCCAGCCACTGTTAGTGTCGCCACCGCCCATAAAGGAGCTGAGC
CCAGCAGGGGCACTGCCTGGGGCCCTGTAGCCAAAAGGCTACAGCAGGAGCTGATGACCCTCATGATGCCTGGTG
ACAAAAGAATTTCTGCCTACCCTGAAAGCCTTATCAAATGGACACCATCCATGAAGCAGCTGGCACAGTGTATGA
AGATCTGAGGTATAAGCTCTTGCTGGAGTTCCTCAATGACTACCCACCTTTACGATGCACCCACAGTGAAGTTCC
TCACACCCTGCTACCACCCTAACGTGGACACCCAGGGTAACATATGCCTGGACATCCTGAAGGAGAAGTGGTCTG
CCCCGTATGATATCAGGACCATCCTGCTCTCTATCCAGTGCCTGCTAGGACAACCTCAACATTGATAGCCCTTTGA
ACACACATGCTACCAAGCTCTGGGAAAACCCCATAGCTTTAAGAAGTACCTGCAAGGGTCAGGCGCAGTGGCTCA
CACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATGGATCACCTGACGTAGAGAGTCCAAGGCCTGAC
AAACATGGAGAAATGTCATCCCTATTTAAAAAATAAAAAAATTAGCCAAG

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FIGURE 5636

GACTCAGGTGAACTAACCTGCGAGAAGCTGGTTGTGCGCTGAGGCGACCAGCGCCGGAAGGCACGGTGGCGACTC
ACGCTGTTCTCGCCGCTCAGAGGCGGGTCTGAGGCTCGGTGGCGGCGCCAGGGTGGCCCGGGCCCTTTCCCTCGG
TCATTGCTCCCCCTCCAGCTCTACTCACAGGCTCCGATGGCGGCGGCCCTGAGGGACCCCGCTCAGGTTCCCT
GTGGCTGCAGACTTGCTTACAGACCATGAGGAGGGCTATGTGACCTTTGAGGATGTGGCTGTCTACTTCTCCAG
GAGGAATGGAGATTGCTTGATGACGCTCAGAGGCTCCTCTACCGCAATGTGATGCTGGAGAACTTTACACTTCTG
GCCCTCTCGGACTTGATCTTCCAAGACCCATGAAATAACCCAGCTGGAGTCATGGGAGGAGCCCTTCATGCCT
GCTTGGGAAGTTGTGACTTCAGCCATACCGAGAGGTTGTTGGCATGGAGCCGAGGCTGAGGAGGCTCCTGAGCAG
ATTGCTTCTGTAGGACTGCTCAGTTCAAACATTCAGCAACACCAGAAGCAGCACTGTGGAGAGAAACCTTAAAA
AGACAACAGGGCAGGGTCCCAGTTTTGAGGAGTTGCAAAGTTCACCTATCAGAGAAGTCCCTTGCAAAGCAGGGAG
GTTGGGAAGGCCCTCCTGATCAGCTCAGGTGTTCTCAAGCACCAGGTGACTCACACAGGAGAGAAGTCACATAGG
AGCTCCAAAAGTAGGGAGGCCCTTTCATGCTGGAAAAAGGCATTACAAATGCAGTGAATGTGGGAAAGCCTTTGGT
CAGAAATATTTACTTGTTTACGACACCAGAGACTACATGCTGGGAAAAAGACGTATGAATGCAGTGAATGTGGGAAG
TTATTTAGAGATATGTCCAACCTTTTTATACACCAAATAGTTCACACTGGAGAAAGGCCCTTACGGGTGTAGTAAC
TGTGGAAAATCCTTTAGCCGTAATGCTCACCTCATTGAACACCAGAGAGTTCACACTGGAGAAAAGCCTTTTACA
TGCAGTGAATGTGGAAAAGCCTTTACAGGCATAATTCCACACTTGTTCAGCATCACAAAATCCACACTGGAGTAAGG
CCTTATGAGTGCAGTGAATGTGGAAAATTGTTTAGTTTCAACTCCAGCCTCATGAAACATCAGAGAGTTCACACT
GGAGAAAGACCTTATAAGTGCAGTGAATGTGGAAAATTCTATAGCCACAAGTCCAACCTTATCAAACATTGGCGT
GTTCACTACTGGAGAAAGGCCCTTACAAGTGCAGCGACTGTGGGAAATTTTTTACCCAATGCTCAAGCCTCATGCAA
CATCAAAAAGTTCACACTGGAGAAAAGCCTTTTAAGTGCAATGAATGTGGGAGATTCTTTAGAGAGAATTCCACC
CTAGTTAGACATCAGAGGGTTTACACTGGAGCAAAGCCTTATGAGTGCAGGGAATGTGGGAAATTTTTTAGCCAA
AGCTCAACCCTCATGCAACATCGAAAAGTTCACATTGGAGAAAAGCCTTTTAAGTGCAATGAATGTGGGAGATTG
TTTAGAGAGAATTCCAGCCTTGTTAAACATCAGAGGGTTCACACTGGAGCAAAGCCTTATGAGTGCAGGGAATGT
GGGAAGTTTTTTTCGCCACAACCTCCAGTCTTTTTTAAACATCGAAGGATTCACACTGGAGAAATGCAGTGAATTGTGT
GAAATCCTTTAGCCAGCGTTTTCAACCTCATTCAACACCAGAAAGTTCACAGTGGAAAAAATCTTGAAGGTAACAG
ATGGAAATCCGTTAGCCACACCTCCAGTCTCATTCAACACTGGACAGTTTACAATGTGGACAATGTAGTGAATAT
GGAAAAAGGTTTCAGCCAAAGGCCTAACCTATTCAACACCAGAAAGTTAGAATGGAGAAAGGCCCTTAGGGTGA
CAGGTTATGTACTGTCTCTGAATCAATATGACCTCACTTAAACAGAAACTCTGAGGATGGCCTTTATGAGGGAG
CTGGCAATTGAACATCATTCTAAATATGCACACTGGAGGCAAGATGAGAATTCCTGACAGATTGTCCTTCCT
GAGAAGACAGCCCTCTGCCTTGGAGCTCCAGAGAGAGGGAGCCCTGTATTCTTGCTGTACCCGTCGAATGGAGT
TTTGATCTCGCTGAGTTTGGAGTTGGGGGAGGAAAGGAGTGGTCTTGGTTCAAATGTGACTCACTTTTGCTGTTT
TTGTGAATGTTAGATCTTCTTTAATAAATATTTATTTCCCATACACCCTTATGACCATTAAAAAAAAAAAAAAAA
AA

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FIGURE 5637

MAAAALRDPAQVPVAADLLTDHEEGYVTFEDVAVYFSQEEWRLDDAQRLLYRNVMLNFTLLASLGLASSKTHE
ITQLESWEPPFMPAWEVVTSAPRGCVHGAEEAAPEQIASVGLLSSNIOQHQQHCGEKPLKRQQGRVPVLRSC
KVHLSEKSLQSREVGKALLISSGVLKHQVTHGTGEKSHRSSKSREAFHAGKRHYKCSECGKAFGQKYLVLVQHQLH
AGKITYECSECGKLFRDMSNLFIHQIVHTGERPYGCSNCGKSF SRNAHLIEHQRVHTGEKPFTCSECGKA FRHNS
TLVQHHKIHTGVRPYECSECGKLFSFNSSLMKHQRVHTGERPYKCSECGKFYSHKSNLIKHW RVHTGERPYKCD
CGKFFTQCSSLMQHQKVHTGEKPFKCNECGRFFRENSTLVRHQRVHTGAKPYECRECGKFFSQSSTLMQHRKVHI
GEKPFKCNECGRLFRENSSLVKHQRVHTGAKPYECRECGKFFRHNSSLFKHRR IHTGEMQ

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FIGURE 5638

GTGCGATCCCGGGCCCGAGGGCATCAGACGGCGGCTGATTAGCTCCGGTTTGCATCACCCGGACCGGGGGATTAG
CTCCGGTTTGCATCACCCGGACCGGGGGCCGGGCGCGCACGAGACTCGCAGCGGAAGTGGAGGCGGCTCCGCGCG
CGTCCGCTGCTAGGACCCGGGCAGGGCTGGAGCTGGGCTGGGATCCCGAGCTCGGCAGCAGCGCAGCGGGCCGGC
CCACCTGCTGGTGCCCTGGAGGCTCTGAGCCCCGGCGGCGCCCGGGCCACGCGGAACGACGGGGCGAGATGCGA
GCCACCCCTCTAGCTGCTCCTGCGGGTTCCCTGTCCAGGAAGAAGCGGTTGGAGTTGGATGACAACTTAGATACC
GAGCGTCCCGTCCAGAAACGAGCTCGAAGTGGGCCCCAGCCCAGACTGCCCCCTGCGTGTGCCCCCTGAGCCCCA
CCTACTGCTCCAGATCGTGCAACTGCTGTGGCCACTGCCTCCCGTCTTGGGCCCTATGTCTCTCTGGAGCCCCGAG
GAGGGCGGGCGGGCCCTACCAGGCCCTGCACTGCCCTACAGGCACTGAGTATACCTGCAAGGTGTACCCCGTCCAG
GAAGCCCCGGCCGTGCTGGAGCCCTATGCGCGGCTGCCCCCGCACAAAGCATGTGGCTCGGCCCCACTGAGGTCTCTG
GCTGGTACCCAGCTCCTCTACGCCTTTTTCACTCGGACCCATGGGGACATGCACAGCCTGGTGGCAAGCCGCCAC
CGTATCCCTGAGCCTGAGGCTGCCGTGCTCTTCCGCCAGATGGCCACCGCCCTGGCGCACTGTCAACCAGCACGGT
CTGGTCCCTGCGTGATCTCAAGCTGTGTGCTTTGTCTTCGCTGACCGTGAGAGGAAGAAGCTGGTGTCTGGAGAAC
CTGGAGGACTCCTGCGTGCTGACTGGGCCAGATGATTCCTGTGGGACAAGCACGCGTGCCCAGCCTACGTGGGA
CCTGAGATACTCAGCTCACGGGCCTCATACTCGGGCAAGGCAGCCGATGTCTGGAGCCTGGGCGTGGCGCTCTTC
ACCATGCTGGCCGGCCACTACCCCTTCCAGGACTCGGAGCCTGTCTGCTCTTCGGCAAGATCCGCCGCGGGGCC
TACGCCTTGCCCTGCAGGCCTCTCGGCCCTGCCCGCTGTCTGGTTCGCTGCCTCCTTCGTCGGGAGCCAGCTGAA
CGGCTCACAGCCACAGGCATCCTCCTGCACCCCTGGCTGCGACAGGACCCGATGCCCTTAGCCCCAACCCGATCC
CATCTCTGGGAGGCTGCCCAGGTGGTCCCTGATGGTCTGGGGCTGGACGAAGCCAGGGAAGAGGAGGGAGACAGA
GAAGTGGTTCTGTATGGCTAGGACCACCTACTACAGCTCAGCTGCCAACAGTGGATTGAGTTTGGGGGTAGCT
CCAAGCCCTTCTCTGCTCTGAAGTGAAGCAACCTTCAGTGCCTTCCAGAAGGGAGAAAGGCAGAAGCCTGTGT
GGAGTGTGCTGTGTACACATCTGCTTTGTTCCACACACATGCAGTTCCTGCTTGGGTGCTTATCAGGTGCCAAGC
CCTGTTCTCGGTGCTGGGAGTACAGCAGTGAGCAAAGGAGACAATATCCCTGCTCACAGAGATGACAACTGGC
ATCCTTGAGCTGACAACTTTTCCATGACCATAGGTCACTGTCTACACTGGGTACACTTTGTACCACTGTGCGC
CTCCACTGATGCTGGTGTCTAGGCACCTCTGTCCAAGGACAATCCCTTTCACAAACAAACCAGCTGCCTTTGTAT
CTTGATACCTTTTTCAGAGAAAGGGAGGATCCCTGTGCCAAAGGCTCCAGGCCTCTCCCCTGCAACTCAGGACCCA
AGCCCAGCTCACTCTGGGAAGTGTGTTCCAGCATCTCTGCTCTTGGATTAAAGAGATTCTCCTTCCAGGCCTAA
GCCTGGGATTTGGGCCAGAGATAAGAATCCAACTATGAGGCTAGTTCTTGTCTAACTCAAGACTGTTCTGGAAT
GAGGGTCCAGGCCTGTCAACCATGGGGCTTCTGACCTGAGCACCAAGGTTGAGGGACAGGATTAGGCAGGGTCTG
TCCTGTGGCCACCTGGAAAGTCCAGGTGGGACTCTTCTGGGGACACTTGGGGTCCACAATCCAGGTCCATACT
CTAGGTTTTGGATACCATGAGTATGTATGTTTACCTGTGCCTAATAAAGGAGAATTATGAAATAAAAAAAAAA
AAAAAA

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FIGURE 5639

MRATPLAAPAGSLSRKKRLEDDNLDTERPVQKRARSGQPRLPPCLLPLSPPTAPDRATAVATASRLGPYVLE
PEEGGRAYQALHCPTGTEYTCKVYPVQEAPAVLEPYARLPPHKHVARPTEVLAGTQLLYAFFTRTHGDMHSLVRS
RHRIPEPEAAVLFRQMATALAHCHQHGLVLRDLKLCRFVFADRERKKLVLENLEDSVLTGPDDSLWDKHACPAY
VGPEILSSRASYSKGAADVWSLGVLFMTLAGHYPFQDSEPVLLFGKIRRGAYALPAGLSAPARCLVRCLLRREP
AERLTATGILLHPWLRQDPMFLAPTRSHLWEAAQVVPDGLGLDEAREEEGDREVVLYG

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FIGURE 5640

GGGAGTCCGGGGACCCGCGATCAGCCCCGGAGGACGGGGTGGGGTCGCCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCCGCCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTTCGG
CCCCCTCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCCGCCGAAGCCGTCCCCCTTG
GAAGAACTGGGGCCTCCCGGGAGGAGAGAGGGCTTTGCCCTTGAAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG
GGGGTCTCCGGGACTTGGAACGCCCCGGCTGGGTGGTGTCCGGGCGTCTTTCCCGCTTCTTCCCACTCGGC
TGGTCCCGTTTCTCTCTGCGCCAGTGCAGGACCTGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATC
CCGGCCTGGTCAACCGGCAGTGTGATGCTTCCCGACTGCCCGGGGACAGCGAGGCACACACAGGGCTTGGGCCG
CGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCCTCTCCAGGCGACCCGGAGGTAGCATTTC
CCAGGAGGCACGGTCCCCCCCCAGGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGGGCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTCAACATCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGGTTTTTCTGGACTATGGCTTCCCAACAGTCTTGACAGAGTGGGTGATTGGGCAGCGGCTGGCACGAGA
CCAGGAGACCCCTGCACTCCCATGGGGTGGCGCAGAAATGGGGACAGTGCCTACCTCTATCTGCTGTCAGCCCGCAA
CACCTCCCTCAACCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCGGATGCTGGAAGATCTGGGCTTCAAGGACCT
CACGCTGCAGCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCGGGTCCCCCAGGAACCCGGACGGGGGCA
GCCAGATGAGTGCCTGAGCCCCACCGGTGGGTGGCAGTGCCCCGGGTGCACCTTCATCAACAAGCCACGCG
GCCTGGCTGTGAGATGTGCTGCCGGGCGCGCCCCGAGGCCACCAGGTCCCCGCCTCATACCAGCCCGACGAGGA
GGAGCGAGCGCGCCTGGCGGGCGAGGAGGAGCGCTGCGTCAGTACCAGCAGCGGAAGCAGCAGCAGCAGGAGGG
GAACTACCTGCAGCAGCTCCAGCTGGACCAGAGGAGCCTGGTGTGTAACACGGAGCCCCGCCGAGTGCCCCGTGTG
CTACTCGGTGCTGGCGCCCCGGCGAGGCCGTGGTGTGCTGCGTGAAGTGTCTGCACACCTTCTGCAGGGAGTGCCTGCA
GGGCACCATCCGCAACAGCCAGGAGGCGGAGGTCTCCTGCCCCCTCATTGACAACACCTACTCGTGCTCGGGCAA
GCTGCTGGAGAGGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTCTTAGACCTGGGCATCTCCAT
TGCTGAAAACCGCAGTGCCTTCAGCTACCATTGCAAGACCCAGATTGCAAGGGATGGTGCTTCTTTGAGGATGA
TGTCAATGAGTTACCTGCCCTGTGTGTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAA
CTGCAAGGAGTATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCT
GAAGGTGATGCTGCAGCAGGGCGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTG
CGACTGGATCCGCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCACGCTGGGGCCCTGGGGG
CCCAGGAGACACCAGCGGGGGCTGCCGCTGCAGGTTAAATGGGATTCCCTTGCCACCCAAGCTGTCAGAACTGCCA
CTGAGCTAAAGATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTGTAGAAATGTAGCTCAGGGAGC
TTCGTGGACGGCCTTGCTTGCTGTAGCGTTGTAGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCC
CCAGTGCCCTTTGTCTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCTGCGGCTCCCACCTCTGCCTGACCC
CAGCCTTAAACATAGCCCCTGGCCAGAGGCCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCTCCCACCAC
AACACTCATCTGTCAAACACCAAGCACTCTCAGCCTCCCCGCCTTCAGCTGTCAGCTTTCTGGGGCTAACTTCTC
TGCCTTTGTGTTGGAGGCTGAGGCCCTTGGAACCTTGCTAACCTGTTTCAAGGCCAGGAAGGAGACTGCACA
GTTTTGAAAGCACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAAA
ATGGTTTTCCGGGAA

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FIGURE 5641

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQRERQLRMLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQRKQQQEGNYLQHVQLDQRSVLNTEPAECPVCYSVLAPGEAVVLRCLHTFCRECLQ
GTIRNSQEAEVSCPFIDNTYSCSGKLLEREIKALLTPEDYQRFLDLGISIAENRSAFSYHCKTPDCKGWCFEDD
VNEFTCPVCFHVNCLLCKAIHEQMNCKEYQEDLALRAQNDVAARQTTEMLKVMLQQGEAMRCPQCQIVVQKKDGC
DWIRCTVCHTEICWVTKGPRWGPGGPGDTSGGCRCRVNGIPCHPSCQNH

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FIGURE 5642

GGGAGTCCGGGGACCCGCGATCAGCCCCGGAGGACGGGGTGGGGTCGCCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCCGCCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTCCGG
CCCCCTCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCCGCCGAAGCCGCTCCCCTTGC
GAAGAACTGGGGCCTCCCGGGAGGAGAGAGGGCTTTGCCTTGAAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG
GGGGTCTCCGGGACTTGGAACGCCCGGGCTGGGTGGTGTCCGGGCGTCTTTCCCGCTTCTTCCCACTCGGC
TGGTCCCGTTTCTCTCGGCCAGTGCGGACCTGTCTCGGCGCCCGCTGCCCTCTACCGCCCCACGCAGGATC
CCGGCCTGGTCACCGGGCAGTGTGATGCTTCCGACTGCCGCGGGGACAGCGAGGCACACACAGGGCTTGGGCCG
CGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCCTCTCCAGGCGACCCGGAGGTAGCATTTT
CCAGGAGGCACGGTCCCCCCCCAGGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGCGCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTCAACATCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGGTTTTTCTGGACTATGGCTTCCCAACAGTCTTGCAGCAGTGGGTGATTGGGCAGCGGCTGGCACGAGA
CCAGGAGACCTGCACTCCCATGGGGTGGCGGAGAAATGGGGACAGTGCCTACCTCTATCTGCTGTCAGCCCGCAA
CACCTCCCTCAACCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCGGATGCTGGAAGATCTGGGCTTCAAGGACCT
CACGCTGCAGCCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCGGGTCCCCCAGGAACCCGGACGGGGGCA
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGCTGGCAGTGGCCCGGTGCACCTTCATCAACAAGCCACGCG
GCCTGGCTGTGAGATGTGCTGCCGGGCGCGCCCCGAGGCCTACCAGGTCCCGCCTCATACCAGCCCGACGAGGA
GGAGCGAGCGCGCTGGCGGGCGAGGAGGAGGCGCTGCGTCAGTACCAGCAGGGAGTGCCTGCAGGGCACCATCC
GCAACAGCCAGGAGGCGGAGGTCTCCTGCCCCCTTCATTGACAACACCTACTCGTGCTCGGGCAAGCTGCTGGAGA
GGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTTCTAGACCTGGGCATCTCCATTGCTGAAAACC
GCAGTGCCTTCAGCTACCATTGCAAGACCCAGATTGCAAGGGATGGTGCTTCTTTGAGGATGATGTCAATGAGT
TCACCTGCCCTGTGTGTTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAACTGCAAGGAGT
ATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCTGAAGGTGATGC
TGCAGCAGGGCGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTGCGACTGGATCC
GCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCACGCTGGGGCCCTGGGGGCCCAGGAGACA
CCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCCCTGCCACCCAAGCTGTCAGAACTGCCACTGAGCTAAAG
ATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTAGAAATGTAGCTCAGGGAGCTTCGTGGACGG
CCTTGCTTGCTGTAGCGTTGTAGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCCCCAGTGCCTTT
GTCCTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCTGCGGCTCCACCTCTGCCTGACCCCAAGCCTTAAAC
ATAGCCCCTGGCCAGAGGCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCCTCCCAACCAACACTCATCT
GTCAAACACCAAGCACTCTCAGCCTCCCGCCTTCAGCTGTGAGCTTTCTGGGGCTAACTTCTCTGCCCTTTGTGG
TTGGAGGCCTGAGGCCTCTTGAACTCTTGCTAACCTGTTTCAGAGCCAGGAAGGAGACTGCACAGTTTTGAAAGC
ACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAAATGGTTTTCCG
GGAA

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FIGURE 5643

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQRERQLRMLLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQGVPAGHHPQQPGGGGLLPLH

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FIGURE 5644

GACGATGGGGCTGCGTGCAAGGAGGAACGCTGGGCAGGGCCGGCGCGGGTTCGGGGGGCGCCCCGAGGGGCCCGGGCC
GAGCGGCGGGCGCGCAGGGCGGCAGCATCCACTCGGGCCGCATCGCCGCGGTGCACAACGTGCCGCTGAGCGTGCT
CATCCGGCCGCTGCCGTCCGTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGGACACGATCCGGGAGGACCCAGA
CAGCGTGCCCCCATCGATGTCTCTGGATCAAAGGGGCCAGGGAGGTGACTACTTCTACTCCTTTGGGGGCTG
CCACCGCTACGCGGCCTACCAGCAACTGCAGCGAGAGACCATCCCCGCCAAGCTTGTCCAGTCCACTCTCTCAGA
CCTAAGGGTGTACCTGGGAGCATCCACACCAGACTTGCAGTAGCAGCCTCCTTGGCACCTGCTGCCACCTTCAAG
AGCCCAGAAGACACACCTGGCCTCCAGCAGGCTGGGCCATGCAGAAGGGATAGCAGGGGTGCATTCTCTTGCAC
CTGGCGAGAGGGTCTGACTCTGGGCACCCCTCTCACCAGCTACAAGGCCTTGGACTCACTGTACAGTGTGGGAGC
CCCAGTTCACCTCTGTGACAATAGGATCATGGCCTTACCCTTGAAGCATTACCGAGAAGGAGAACAGAGATGG
GCTTGAAGAGCCACGTGCTGCCGGCTCCAAATTCCTCAAGGACAAGGATCCCTCTGCATTTTTGTCTATGTAACCT
CTTATATGGACTACATTTCAGCTGCAAGGAAAGGAAAACCTTGATTGCAGTGGTTTAAACAAACAGAAGATTGTTT
TTCCACATAGCATGGATTCTGGAGATGGGTGGCTAATGGTATTGGTTCAACAACCTCCACGAAGGTAGGGGTCACG
TCTTGGATCCTTTTGCTTAATCTCAGTGCTCGTTACTTTCATGGTCCCAAGATGGCTGCTGTATCCCCAAGAATC
ATGTCTGCGTTCAAGGAAGGAGGGGTGGAGGAAGAGGAAGGGCCAACTAGCTGGACCCGTCACCTTCTATCAGA
AAGTAAAACCTCGTCAGAAGTCTGTTTCTGCTCTCTCCCTCTGCATATCTTCACTTAGATGCCCTTGGCCCCGAG
CCAGCTACCATTGCACCTCTAGCTGCAACAAAGCTAAGACAGCAGGGAACAGAATTGTCATGGCTGAATAGACC
AATCGTGTTCATCTACTGAGACTGGCACACTGCCTCCTGCAATAAACTGGGATCCCCATTACCAAGAGAGAAAT
GCAGAATTGTGTACCAGTTAGCTTTTGTGTGTAAACAACCATCCCCAACTTGGCAGCTAGAAACAAACCCTGT
ATTTTCCCAATCCTATGGGTGGCAATTTGGGCTGGGCTCAACAGGGCAGTTCTGCTGCTCACACCTGGGATC
CCTCATGGAGCTAAGGTCAGCTGTTACCTCAGCTGGGCCTGGATGGTCTAGGATAGCCTTACTCACTTGCCTGGC
AGGTGACAGGCTGTTGGCTGGAATTGCTTGGTTCTCCTCCATGTGGCCTCTCCAGCAGGCTAGCTCAGGCTTATT
CACATGATGGCTTCAGGATTCCAAAGAGAGTGAGAGTAGAAGCTGAAAGACTTCTTGAGTTCTTGGCCTGGAAC
GGGACTAGGACAGTGTCACTTCTGCTAAGTTCTTTGGTTCAGAGCAAATCACAAGGCTTTACCCAGATTCAAGGG
ATGAGAAACAGACTACATGTCTTGATGAGGGGAACCAAGAGCTTGTGGCCATTTTACCTATCACAAATAA
TTTTGGATGGGTATTTATTTGGATAAAGGTATTTCCCTCTTCCCCCTTCTCTGTCTCATGGGGCCTCACTCT
GCCAAGTTGGAAGGCACTAAGACATTGTCCTGGCCCTCAGGGTCTAGGGGAAGAGGTGTTGGGGCAGGAAGTGAG
TCTCTCCATGGGCTGGACCCACTGTAGTAGGAGTGCCCTCCTTGTCTGCACTGCTGGTATGGGGTTAGGCCAGGTA
GGACATTCCAGAGGGGCTTCTGAAAACCAAGAGTCCCTGGGGAAAGGGAACAGAGTAAGGCAGGCCTTGTCTCA
CTGCCCTCTAAGGGAACCTTGGTCACTCGGCACTTTTAAGCCTCAGTTTCTCCAGTTCAATAATAAGGACAAGAGC
TTTTCCCATGCATTCTCTTTCCCCGGGAAAGTTGACTGAGGTGACCAGTAATAGAATTGAAAAGGGAGAGTGTCT
TCAGTGCAATGTGGCATCCTGGATTGGGTCTTGGAAACAAAAACAGGACATTAGTGGGAAAATTGGAATCTGAAA
AAAGTCTGAATTTTAGTTAATATACCAATTCAGTCTCTTGGTTTTGACAGATGTACCATGGTGATGTAAGATGT
TGACCTTGGGGTAGGCTGGGTGAAGGGTATACAGGAACCTTTGTACTATCTCTGCAACTTCTCTGTAAATCTAG
TATCATTCCAAATAAAAGTTTATTTAATTT

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FIGURE 5645

MGLKSHVLPAPNSQGQSLCIFVYVTSYMDYIQLQGKENLDCSGLNKQKIVFPHSMDSGDGWLMLVQQLHEGRG
HVLDPFALISVLVTSWSQDGCCIPKNHVCVQGRGGGRGRAKLAGPVTFYQKVPRQKSVSCSLPLHIFT

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FIGURE 5646

GTCTGAGCGCGCTCGGCTTTTTTTTTTTTTTCTCTCTCCTTCCCTGCAGCAGTGGCCGGTGTCAGCTGCCTACT
TTCTGCCCCGATCTCTGGCTCCTCATCTCTCCGGTCTCCGCAGACTAAAGCCCTCGGGATATGCAGCAGCCATGC
CTGTGCACACGCTGAGCCCCGAGCCCCGTCCGCCCCCGCCCTACCTTGCCGCTGCGGACCAGGGTCCCTGGCT
ACCTGCTACGGGGGCCGGCAGATGGTGGAGCCCCGAAACCGAGCGCTGTGGAGCGCCTGGAGGCCGACAAGGCCA
AGTACGTCAAGAGCCTGCACGTGGCCAACACCCGCCAGGAGCCTGTGCAGCCCCCTGCTGTCCAAACAGCCGCTCT
TTAGCCCTGAGACTCGCCGCACAGTGCTCACGCCAGCCGCCGAGCCCTGCCTGGCCCCCTGCCGACGGCCCCAGC
TGGACCTGGACATCCTCAGCAGCCTCATCGACTTGTGTGACAGCCCCGTGTCCCTGCCGAGGCCAGCCGCACTC
CTGGACGGGCCGAGGGAGCCGGCCGTCTCCCCCAGCCACCCCTCCGCGACCGCCGCCAGTACCTCTGCGGTCC
GCCGGGTGGACGTCCGCCCCCTGCCCGCCTCGCCTGCCCGGCCCTGCCCATCACCCGGCCCTGCCGCCGCCTCCA
GCCCAGCCCCGGCCGCCGGGTTTGCAACGCTCCAAGTCGGACTTGAGCGAGCGCTTTTCTAGGGCAGCCGCTGATC
TCGAGCGCTTTTTTAACCTTCTGCGGCCTGGACCCGGAGGAGGCGAGAGGGTTGGGTGTGGCCACCTGGCACGGG
CCAGCTCGGATATCGTGTCCCTGGCAGGGCCAGTGCTGGGCCGGGCAGCTCTGAAGGGGGCTGCTCCCGCCGCA
GCTCGGTGACTGTTGAGGAGCGGGCCCGGGAGCGCGTTCCCTATGGCGTGTCCGTGGTGGAGCGCAATGCCCGCG
TGATCAAGTGGTTGTATGGGCTAAGGCAGGCTCGGGAGAGCCCAGCAGCTGAAGGCTAGGCGCCACTGGGCCTGG
AATTGCCACAGGACGGATCTTACAGAGGCAAGTGGTCCCTGGACCTCTCTTGATCCATTCTCTAGACGGCCGT
GTCAGAGGCTCCACCCTGTTGTGAACCTGGTATGGAGGCAAAGGCTTAGAGGCTGGACCAGCATTGTTGGGCAAG
GACTGACTCTCAAGGGTTTTGTTCTTGGCTTTGGACACCTGAGAACCCCTCCTCCCCCTCCCCAATAACAAGGT
TTTTGACATGAGTGTACTCCTGCTTAGTTCCCTCTTGTGGGGCTGCATTTCGGGTGCTTTGCCCTCCCCACTGTGA
GTGAGGGGCCAAGGGATCTCCTCAATCCTGTCTCCCCAGCGGCTCTGTTTCCTCCTTCCTTCCTTGGCCTCTGTC
CTTTGCTGACTTCCTCTTCCTTACCCAGCAGAACTCACCTGGGGTCGGGGCAGTGGGGAGGGGCCTATCCACTG
CTCTTCCTAGTCCTTGGCAGCTGGCCTAGGTGGGCAGACTATAGGAGGGACTGGTTAGGAGTCTGCATTGCTTTG
ACTTCCCTCTCCTTGGTTAATAAACACAAATGCTTGTTCCTC

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FIGURE 5647

GCAAGAACCAGCGCAAGAGGGGAAGCAGAGTTATAGCTACCCCGGCCGCGGAGCCGGCTCACTGCACTACCCCGC
CCCCTTCTTTCCTCCAGACGCCGAAGTCGCGGGCGCTCATGGCGGGCCTGGAGGTACTGTTGCGATCGGCAGCGC
CGGCCATCACTGCAGGCAGGACGCGCTCGTCTGCTTCTTGCAATTGGGAAGTGGTGACACACGGTTACTTCGGCT
TGGGTGTCGGTGACCAGCCGGGTCCCAATGATAAGAAGTCAGAACTGCTGCCAGCTGGGTGGAACAACAATAAG
ACCTGTATGTCTCCGGTATGAGTATAAGGATGGGTCCAGAAAGCTCCTTGTGAAAGCCATCACCGTGGAGAGCA
GCATGATCCTCAATGTGCTGGAATATGGCTCACAGCAAGTGGCAGACTTGACCCTGAACCTGGATGATTATATCG
ATGCAGAACACCTGGGTGACTTCCACAGGACCTACAAGAACAGTGAGGAGCTTCGGTCTCGTATTGTGTCTGGAA
TCATCACACCTATCCATGAGCAGTGGGAAAAGGCTAATGTAAGCAGTCCCCACCGGGAGTTCCCCCCTGTAACCG
CCAGAGAGGTGGACCCACTCCGGATTCTCCACACCACCCACACACAGTCCGGCAGCCTCCCTGGTGTGATCCCC
TGGGCCCCGTTTGTGTGCGGGGAGAAAGACTTAGACCCTTTTGGGCCTCGGAGAGGTGGCATGATTGTGGATCCCC
TGAGATCTGGCTTCCCAAGAGCACTTATTGACCCTTCTCAGGCCTCCCGAACCGACTTCCTCCAGGCCTGTGC
CCCCAGGAGCTCGCTTTGACCCCTTTGGACCCATTGGGACCAGCCACCCGGACCTAACCCAGACCATCTCCCCC
CGCCGGGTACGATGACATGTACCTGTGAAGGCCTCAAGAATGTAACATCCAGGCTTCCTCCATTCTCCTGGA
GCTGCCACCGCTGTCCCATCAGCAACCATGTTCTTGCAAGGCTGGGGGCAAGGGATTCTGCTCATGTGTTGCGAG
ACCGGCTGGGATAGCCTCCCCACCCCTTATCAGAGCCAAGACACCTGCTGCAGCTCTCCACCTAGCTGCAGATAG
CTCCCAAAGAGAAATCAGTGTGTCTCTTACCATCAGCTCCTCCCTTTTACCACCAGCTCCTCTCCACTTCCC
AAGGGAGACTCCGGCAACCTTCAGCAACATATATCCTCGACCAGATGCAGTGTCTATAAGAACAGAACGCATTTTG
GATGTTATTATTAAGAACCAAATGTCAATACAGAATTCATGTTGCCGTTTCCCACTTTTCTTTTACATTAATG
CATAGCTGCTTCCATTTATGAGACTTTAGAGTTTGAGTTTCTGTAGGGCTGAATGACTCTTTTTCTGCCAGGG
CCCATTCTTGCTTCTCAGGCACCTTCCGTTTATTAATTGCCATTGCTCCTGACATCACTAAGATGGGTCCCCCTC
TGGCTGCATGAATGGAAATGAGTGACTGGAATCCCATAGGCCACAAGAATGACTTTCACAAGGGCAGGAACATT
GTGAAAAGACTGCATCATTTCTGATGAGGCAAAATCCTCCAGCTATTCTGTCTGGGCCAGTTTTGTAGGTCCATC
TGTGCATGGGCAGCAGTAGTCAAAAAGCCAAGGAAAAAACAGAGCAGACCTGAAGGCTAATCTTATTTTGCCAC
TAACCTAGTGAAATGACCCTAAGCAAGTTCCTTCTCCTCTTAGGGCCTTGTGCCAAGCCTATGAAATTGGAGGTGG
CTTTCCTGCTCTAAAGCATTTTGATGTCTCATTCTGTGTTTGGTAACCCCTATAAACTGGGGCAGAGGAAAAGAA
TGATGGTTCAAGGCCATACTTCCCTTGAACCTTGTGTGTTTCTTGCCCTAACTCTGTGGTTTTTGGACCCCATGGG
GCCAGACAGAGCACAGGAGCATGGGCTGCCTCTGAGTGTGGTGTGAACTTCGGGAGGAGCAGGGAGCCCTGCA
CCTTGTGTCTGGCCACCTGACCTTTGGTGTCTCCGGATCCTTTTCAGCCCGAGGCCTGACAGACGCGGGCAG
TGATGAGCCCTGTTCTGGAGTGGAAAGAGCACGATAGAGCACCAGGCTAAGAGGCACGAGATCAAGGCGGTAGTC
ACTTCCGCTCTGCAGCTAGCATTTCAACCATATGTGGATCCTTTTCACTTCTCAGCTCCCTGGATTCTTCCCTA
AATTAGGACCTATTATTTACCTGTAGGTAAGCAAGCTACTGTAGCTCTTCTGAGGTATCTGCCAGGCTGTTTTCT
GTAGCCTCAGATTGCCTATCTGCTTAGCCTGAGAACAGGTAGATGAAAATAAACTGATGCCTAGGCCAGGGTC
AGTCTCAGATGGAAGCTGGGCCTGGGTGGGGAGGCTAGCATGCGTGGCTCCCTGGGTATTTCTGTCAGTCCCCAT
GGCAAGCAGTGATTTAGTAAAACACCCAGAGTCAGGGAAGCCAACCACCTTGAAACCTTTAGAACATCTCTGCT
TTGGAGAAAAGACCCAGAGATCAGGCAGAGGTGCAGATTCAATCATTACTCATAACCTTTGAGAGATGGCAAAATGG
GAGGAGTGTTAGTCTTTGTTTTGGAATTGGACATTCTTGCAACCAAAAGGACTTAGAGCAGTTTGCTCATAAAG
ACATCCTTTTATTATAAAAAGGAAGTATTTAAAGGATGATAGAGACCATCAGATAGAAGCAGGGAAGGTAGATAACT
TTTAGGACCTTGATGTGAGGAAAAGATAAAATTTAAACAATAAATTTGCCACTTAGATTTTCTAGCAGCAAAGTC
CGAAAAGATAGTTATATACAAAATTCTGTTTTCTGAAAACAAAATTGTGATTACCTTCAGAATTGGCCATTTT
TTTGTGAGTTTCTTGCATCAAGGACACTGAGAAACACAGTCATTGTCTTAGGTGTTCTATGGGAGGAAGTGAAT
AGAGCCTTTAGGAACTTCTGGTCAAGCTTATGGTGCTTATTTTGATCTGGGCCACTTCCCTCCTTCCAGTCATG
AGTAATCATCAAGGAGCAAGTTGGAGTGTTTCAGGTGTATATTTTGTAGAACCCTAAAAGATTGGAGCCTTAACAA
TAAACATCAGCACT

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FIGURE 5648

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTGCTGTTGGTCCACGCCGCCCGTCGCGCC
GCCCCGCCGCTCAGCGTCCGCCGCCGCCATGGGAGTGCAGGTGGAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCCTACACCGGGATGCTTGAAGATGGAAAGAAATTTGATTCTCTCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTGCCCCA
GATGAGTGTGGGTGAGAGGCCAAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAACTGGAATTGACAGGAATGGCTCCTCCCTT
AGCTCCCTGTTCTTGATCTGCCATGGAGGGATCTGGTGCTCCAGACATGTGCACATGAGTCCATATGGAGCTT
TTCCTGATGTTCCACTCCACTTTGTATAGACATCTGCCCTGACTGAATGTGTTCTGTCTCAGCTTTGCTTCCG
ACACCTCTGTTTCCTCTTCCCCTTTCTCCTCGTATGTGTGTTTACCTAAACTATATGCCATAAACCTCAAGTTAT
TCATTTTATTTTGTTCATTTTGGGGTGAAGATTGAGTTTCAGTCTTTTGGATATAGGTTTCCAATTAAGTACA
TGGTCAAGTATTAACAGCACAAAGTGGTAGGTTAACATTAGAATAGGAATTGGTGTGGGGGGGGGGTTTGCAAGA
ATATTTTATTTTAAATTTTGGATGAAATTTTATCTATTATATATTAACATTCTTGCTGCTGCGCTGCAAAGC
CATAGCAGATTGAGGCGCTGTTGAGGACTGAATTACTCTCCAAGTTGAGAGATGTCTTGGGTAAATTAAGG
CCCTACCTAAACTGAGGTGGGGATGGGGAGAGCCTTGCCTCCACCATTCCCACCCACCTCCCTTAAACCTT
CTGCCTTTGAAAGTAGATCATGTTCACTGCAATGCTGGACACTACAGGTATCTGTCCCTGGGCCAGCAGGGACCT
CTGAAGCCTTCTTTGTGGCCTTTTTTTTTTTTTCATCCTGTGGTTTTTCTAATGGACTTTTCAAGGAATTTGTAATC
TCATAACTTTCCAAGCTCCACCACTTCCTAAATCTTAAGAACTTTAATTGACAGTTTCAATTGAAGGTGCTGTTT
GTAGACTTAACACCCAGTGAAAGCCCAGCCATCATGACAAATCCTTGAATGTTCTCTTAAGAAAATGATGCTGGT
CATCGCAGCTTCAGCATCTCCTGTTTTTGTGCTTGGCTCCCTCTGCTGATCTCAGTTTCTGGCTTTTCTCTC
CTCAGCCCCCTCTACCCCTTTGCTGTCTGTGTAGTGATTTGGTGAGAAATCGTTGCTGCACCCTTCCCCCAGC
ACCATTTATGAGTCTCAAGTTTTATTATTGCAATAAAAGTGCTTTATGCCGGCTTTTCTCAAAAAAAAAAAAAAA
AAA

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FIGURE 5649

MGVQVETISPGDGRITFPKRGQTCVVHYTGMLLEDGKKFDSSDRNKPFFKMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPGIIPPHATLVFDVELLKLE

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FIGURE 5650

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCCGCCCGTCGCGCC
GCCC GCCCGCTCAGCGTCCGCCGCCGCCATGGGAGTGCAGGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCCTACACCGGGATGCTTGAAGATGGAAAGAAATTTGATTCTCCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCCA
GATGAGTGTGGGTGAGAGAGCCAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAACTGGAATGACCAGGAATGGCCTCCTCCCTT
AGCTCCCTGTTCTTGGGTAAGGAAATGGAATACTGAAGGGCCCTTCACCTGCCTTTGCTCCTCCCATGTTATGCCC
AGCGTTTGATGGGTAGCAGAGAGAAACAAAAACACCACAAGGCTATTTTTCCCCCTGCATTCTTTCTGTATTGAG
TATCCTTTCAGTGTTATTAGTGTATGCTTTGAATGTAAAAATTGGTCACCCTAAGGAAAGGAATTGGCATGTGTA
TGTTCCCAGTTCAACTCATGGAGATGGCAGCTGTTTAAATGTTTTTCTATGTAGTTTATAAAATTAACACTGAATT
GAGGACTATGGAATGTAGGCCAAATTTGTAGTGCCAACATTTTAGTTCTTTGGAATAA

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FIGURE 5651

MGVQVETISPGDGRITFPKRGQTCVVHYTGMLDGKKFDSSDRNKPFFMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPIIPPHATLVFDVELLKLE

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FIGURE 5652

GGCACGAGGGGCAAGCGGAACGCGGCAGCGGGGCTGGGCCTGTGCGGCGGCCGCCGGAGCGCTTTGGAAGGCGCA
CGGGGCGAAGATGGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTTCGTGGCGGTGACGGGCGCCGAGGAGGACCG
GGCCCGCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGACAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA
TGAAGACATTGTGACCATTTCGACAGGAACCCCCAGTTTCAGTGTCCAGAGGCACAGCCCCCAGTGATAATAGAGT
GACATCCTTCAGAGACCTCATTTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGG
GGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCAGGAAGAAAAGTCCCAACGAGCTGGTGGATGATCT
CTTTAAAGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACC
GAGACCATTTGCAGGAGGTGGCTACCGCCTTGGGGCAGCACCAGAGGAAGAGTCTGCCTATGTGGCAGGAGAAAA
GAGGCAGCATTCAGCCAAGATGTTTCATGTAGTATTGAACTCTGGAAGAGTGGATTTCAGCCTGGATAATGGAGA
ACTCAGAAGCTACCAAGACCCATCCAATGCCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCT
TCGGAGGCTAGCTCACGGTGGACAGGTGAAC TTGGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAA
AGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAACTGGGCAGCACTGCCCCCAGGTGTTGAGTACCAGCTC
TCCAGCCCAACAGGCAGAAAATGAAGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAA
CATCCAAATTGGGCTTGCAGACGGCGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCG
ACTCTTCATCGTGGATGCCCCGGCCAGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGA
GCTGGCTGATGAGAGCCAGACCCTGAAGGAAGCCAACCTGCTCAATGCTGTCATCGTGCAGCGGTTAACATAAACC
GCCCAGCCAGCTGCCTGGCCTCCCTCCTGTGTTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCCCTCCT
GCCCCCTTGTGCACACCCAGCAGTCCAGTGCAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGGTTGGACG
TTTGTCTTCTCCTTAGTTGCATTTCTGCGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAAAATAAAAA
CAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5653

MAAERQEALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEDEEEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLFGAKEHGAVAVERTKSPGETSKPRPF
AGGGYRLGAAPEEESAYVAGEKROHSSQDVHVVLKLWKSGFSLDNSELRSYQDPSNAQFLESIRRGVPAELRRL
AHGGQVNLDMEDHRDEDFVKPKGAFKAFTGEGQKLGSTAPQVLSTSSPAQQAENEAKASSILIDSEPTTNIQT
RLADGGRLVQKFNHSHRISDIRLFIVDARPAMAATSFILMTTFPNKELADESQTLEANLLNAVIVQRLT

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FIGURE 5654

ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGCAGGACGGCCGG
ATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTGATCCTCTGTGACTGTGATGAGTTCAGAAAG
ATCAAGCCAAAGAACTCCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCTCGGTCTGGTGTCTGCTGCGAGGGGAG
AATCTGGTCTCAATGACAGTAGAGGGACCTCCTCCCAAAGATACTGGTATTGCTCGAGTTCCACTTGCTGGAGCT
GCCGGGGGGCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTTCCCATGCCCCAGGCTCCTGCA
GGACTTGCTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCACAAGGAAGAGGTACTGTT
GCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCCAACCCAGTACCCACCTGGCCGTGGGGGTCCT
CCCCACCTATGGGCCGAGGAGCACCCCCTCCAGGCATGATGGGCCACCTCCTGGTATGAGACCTCCTATGGGT
CCCCCAATGGGGATCCCCCTGGAAGAGGGACTCCAATGGGCATGCCCCCTCCGGGAATGCGGCCTCCTCCCCCT
GGGATGCGAGGCCTTCTTTGA

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FIGURE 5655

MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMNLILCDCDEFKIKPKNSKQAEREEKRVLGLVLLRGE
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVPMPQAPAGLAGPVRGVGGPSQQVMTFQGRGTV
AAAAAATASIAGAPTQYPPGRGGPPPPMGRGAPPPGMMGPPPGMRPPMGPPMGIPPPGRGTPMGMPPPGMRPPPP
GMRGLL

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FIGURE 5656

GGCACGAGGCTTCTGGCCTTCTCCTGTCAGCAGTTCCCTCAGTCAACATGTACTTCAGATCTTCCTGGGCTTATGT
GCAGAAAATCACTTCCATCCAGGGAATTCTAGCCCCAGGGCATTGGAAACAGCAGGGGCAGCAGTATTCCCATGTA
AGCTGTTGGTTTGAAAAATGCAGAAGGTCAGGAGAGAGGAGGTGGCTCCAAACCCCTGGTCTGCAAGGACAGAGGAG
AGAGAAACCTCAAGGGCATTCCCCAGCCCCACTCCAAAGACAGTCAGCAAGTCCTAGAAAAGGCAACATGGTGGTA
GAAACAGAGCCCAGCTCAGCCCCAAAGACCAAACCTGTGTCAGCTAGACAAAGGCTTGAAGGAATTAGAAACCTTG
AGATTTGGAGCAATCAACTGTAGAGAGTATGAACCGGACCATAACCTGGAATCAAACCTTTATTACAAACCCGAGG
ACCCCTCTTAGGGAAGAAGCCCTACATTTGTCAGTGATTGTGGGCGAAGCTTTAAAGATAGATCAACCCTCATCAGA
CACCATCGTATACACTCGATGGAGAAGCCTTATGTGTGTCAGTGAGTGCAGGGCGAGGTTTTAGCCAGAAGTCCAAC
CTCAGCAGACACCAGAGAACACATTGAGAAGAGAAGCCTTATTTGTGTCAGGGAGTGTGGGCAAAGCTTTAGAAGT
AAGTCCATCCTCAATAGACATCAGTGGACTCACTCAGAGGAGAAGCCCTATGTTTGCAGCGAGTGTGGGCGAGGC
TTTAGCGAGAAGTCACTCCTTCATCAGACACCAGAGGACACACTCCGGTGAGAAACCCCTATGTGTGCTTGGAGTGT
GGACGAAGCTTTTGTGATAAGTCAACCCCTCAGAAAACACCAGAGGATACACTCAGGGGAGAAGCCTTATGTTTGC
AGGGAGTGTGGGCGAGGCTTTAGCCAGAACTCAGATCTCATCAAACACCAGAGGACACACTTGGATGAGAAGCCT
TATGTTTGCAGGGAGTGTGGGCGAGGCTTTTGTGACAAGTCAACCCCTCATCATAACGAGCGGACGCACTCTGGA
GAGAAGCCTTATGTGTGTGGTGTGAGTGTGGCCGAGGCTTTAGTCGGAATCACTCCTCCTTGTCCACCAGAGGACA
CACTCAGGGGAGAAGCATTATGTCTGCAGGGAGTGTAGGCGAGGTTTTAGCCAGAAGTCAAATCTCATCAGACAC
CAGAGGACGCACTCAAATGAGAAGCCTTATATTTGCAGGGAATGTGGGCGAGGCTTTTGTGACAAGTCAACCCCTC
ATTGTACATGAGAGGACACACTCAGGAGAGAAGCCTTACGTGTGTCAGTGAGTGTGGCCGAGGCTTTAGCCGGA
TCACTCCTCCTTGTCCACCAGAGGACACACTCAGGGGAGAAGCATTATGTTTGTAGGGAGTGTGGGCGAGGCTTT
AGTCATAAGTCAAATCTCATCAGACACCAGAGGACACACTGACGGGAGAAGCCTGTGTATGCAGGGGTGATGAAC
AAGACCTGAGTGACAGTCAAGCCTCATGTTACCCAGAGAGACACATGGGGAGTAGACCCTGTGTACACAGATT
GTGAGTGAAGTTCAGAGATGTGTGTCAGCCCTTATCAGGCATGGGAGGGACACGTTTCCAGGAGAGGAGCCTTATGAG
TATAGAGTACGGGCAACTGTAGCCATCAGTCGGCCTTGAGCATGCACAAAAGGACACACTTAGGAGAGAAGTTTA
TGTGTAGGGACTGTGGGAAGGCTTTAGCAATAATCAACATTTACCAGACATCCAATGACAGCCTCAGGGGAAAGC
ACCCCTGTCTGGGGAGTGTGGGGAGCATCAGTAAAGAATGGACACTCAGGCACAGAGTGGCCCTCAGGAAGGA
GGTCTTTGTTGTAGGATGTATGGGCAAAGCTTTTGTGATCACACACCACAGGGAGAATCTGCATGTGGGGACAC
TGTGGAGCTCTGCCAGATGACCTTTTCAGGGGTAACACCCAGCTGCTTGAGAGAACAGTGTGCTGCTGGCAG
AGATGCATTCCAGAGATGCACTCCGCTCTGGAACCTCACTCTCAGCCACAGGGAGCTGCATGCACCACAGGGGCAA
TGCACCTTTGCAGGGGTACCTTCTGGCCCCAACCCCTTGACTCAACGGGGACAACCTCAGAAGGTCATTCCAGATC
CAGAGATCCCCATCGAAGTGAAGGATCACTGGGTTGCAGACACATTGCAGGTCAGCTTCTTCTCTGCCCAGTCC
TGCCCTCACTCCCCAGTGAATCCTCAATTTTCTGTCTCGTTGTCTGTCCAGATAATTGATTCTAAGACATGTTAG
GTATATAAGGAGTGTAGATAAGGCTTCAGCCATGAGTACCCCCAGTAAGCCCCAGAGTATATTGAATAGAAAT
TCTGCATGTGTGGGGAGAATGGACAAGGACTTAGGAAAAAGTCTCATCAAAGAACAGCTTTTTTGGGACAAGCT
TTACATGGGTGGGGAGGGAAAAATGTGAAACACATTAGCAATAAGTTAAACCTCATCTTGTACTAAAGGAGGACAC
ACTCAGGGAGAAGACCTCTGTGGGCGAGGCTTGTGGGTGGAGCTTCATCCGATGTCACTCCTCAACTGACTTAG
GAGGACAGTCTTGCTACCCCAAGTCACTACCTCACTCACCTCTGAGGGATTTTCAGGAAATGCTTGTACTCCCC
ATGTACTCTGTATGTGAGCGAAGATGGCAGTAAGTGTAAATAAGCATTCTTTTCTACTTCTTGAATCAGATGA
AATAAAAAAGCAGGCTTTATTTAAGTAATCAAAAAAAAAAAAAAAAAA

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FIGURE 5657

MVVETEPSSAQRPNPVQLDKGLKELETLRFGAINCREYEPDHNLESNFITNPRTLLGKKPYICSDCGRSFKDRST
LIRHHRISMEKPYVCSECGRGFSQKSNLSRHQORTHSEKPYLCRECGQSFRSKSILNRHQWTHSEKPYVCSEC
GRGFSEKSSFIRHQORTHSGEKPYVCLECGRSFCDKSTLRKHQRIHSGEKPYVCRECGRGFSQNSDLIKHQRTHLD
EKPYVCRECGRGFCDKSTLIIHERTHSGEKPYVCGECGRGFSRKSLLLHQORTHSGEKHYVCRECRRGFSQKSNL
IRHQORTHSGEKPYICRECGRGFCDKSTLIVHERTHSGEKPYVCSECGRGFSRKSLLLHQORTHSGEKHYVCRECG
RGFSHKSNLIRHQORTH

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FIGURE 5658

GATGAGGGTCTGCGGGGCGCCAAAGGAGCCCACGGATCTCACCCACCTGCGGGCTGCAGCAGACTGATCTCCTCC
ACTTCCTTCAGCGCCAGCAGCGCGTAGCCGACCGCGTGCTCAAACAGCACGTGCAACAGCACCTGGAACGGGAGC
CGGGGCGCGAGCGTCAACGCAACCTCAGCGTCTGCGGGAACCCGTTCCCAGGGCAGGCGCAGGCGCAGGCGCAGG
CCCAGGCCCAGGCCCAGGCCCTGTCTGCGGGCCGAACGCAGGCGGAAACCCCCACCGTCGCGTCGCGCCGCGCCCC
GCAACCACTCCTCACCATGGCGCCAGCTCCCGGGTTTCGGCTCGCAATGCGGGCTAGCGCGCTCCGGCGCGCGGAAC
CAGGCTCCAGAGGCCACGCCCCCGCCCCCGACCAATCGGAGGGCCGGGGACGACACCATCTCCGGCCTTTGGAG
GGGCCGCCCAGGGTGGTATCGCCCCGGAGCGCGGGCTGGGTGGTGCCGAGCGCGGGCGAGCGGGCCTTTTCCGGCC
TCTGCAGCTGCGCGGGCGGGCGTGGTTGCGGGGACGCGCGGGCCCCCGGTGCGGGCACTGCAGGCGGCGAAACGAC
TTGGGAAGGCCCTTTTCGGGGTAATAGTCCGGTTCTTGATGTTCTTGTCATATGAGTTACGGGCAGCAGAGCTGGG
TGAAGTCGGGGCGGGAGGTCCGCGTGGGGCGCGGCGTCCATCCCAGACAGAGACCGCTGCCTAGCCGGCTTCCCG
CTTCGTCCGTGGCCTCGGGCCCCAGACCTGCGCCCCACGTCCCCGGGACCCAGGCGTTCCCGTCCCTACTCGG
GGACGAGCCTCCCCGGCGCGGGTGGGCGGTGCATCCTTTCTCCACCCGTAACGGGAGCGGTGCCTGGCGCGC
TCTGGCGCAGACCCTGCTGGGAATGTAGCTCGCGCAGTTTTCTTCGTACTATTAATTTATTTCTTTTTTTGTTT
TTGGTTTTTTTTTTTTTAAATGACTGTAGCAGGCAGTAACGTGCGAAAGAAAGACGCTCCAGCGTCTTCCTAGGCC
AGTTTCTTGTTGCTGTGCTGCACGGGACCCAGCTCCTTTTGCTGGGCCACGTTGCTCCTCCGCTTGGGCGGCC
CTGAATTCTGGGCGCTGGTGATCGCTGAGTGAATCGCAGCTGCTTCCCTGTCCTTGAGGGCGTCTTTTGGGCACT
CAGGCGACTCTTTAGAAATGAGTTTTGCTTTAATAATTAATATTAACGTTATAAATCCAAAACCTAGTTATACTT
AAGTAGCGTATCCCTGGTATGTTTTAAAGAGTCATTTCGAAGGGGATTTTTAAAAATAATGTATAGCTATAAACT
GCATTTATACATTTAATTGTTATTTTGTTAAGCGATTGAGTTACTTGACAAAATCCAAGTACATAGTTCACTCAC
AAATCTAATATGTCAAACCTAAATGTGGTTGGTAAATCTTACTCTCATAATTTCAATATGGTTTACAGATGTGGT
TGAATCTGTTACACATGTCTACTTACGAGTCAGAATCGTTATTCCATTTAATATTTTAAATGGAATTGCCAAG
TTAATCCATACATTAGCATGTTAAATTATTTTAACCGTCGTGAATACATCAAATAGACGATTCCAAAATGTAAT
GGAAAATACTAATGCTAATACTTCAATTTACTTCATTATTTCTGCCCTTAATCCTGAATCTTCTGGAGTTACAG
GTGCTTATCCACTAAACCAGGGGTTTTCAAGCAAGAAGTCAGAATGCATTAATGGACAGCATTAAAAAAATAGG
ATTGGGTGGGCTATAATCCAGCACTTTAGGAGGCCGAGGCAGGCGGATCACTTAAGATCAGGAGTTCGAGACCAG
CCTGGCCAACATGGTGAAACCCCGTCTCTACCAAAAAATAAAAAATTAGCTGGACGTGGTGGAGCATGTCTGTA
ATCCCAGCTACTCGGGAGGCTGAGGAAGGAGAATCGCTTGAACCCGGGAGGCAGAGGCTGCACTCTAGCCTGGGC
AACAGAGCAAGGCTCTGTC

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FIGURE 5659

MSYGQSQSWKSGREVRVGRGVHPRQRPLPSRLPASSVASGPRPCAPRPRDPGVVPYSGTSLPGAGWAVHFFLPP
VTGAVPGALWRRPCWECSSRSFLRTINLFLFFVFGFFFLNDCSRQ

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FIGURE 5660

CGAACCCGGGAGCTGGCGCCATGGTGCTGTTGCACGTGCTGTTTGAGCACGCGGTTCGGCTACGCGCTGCTGGCGC
TGAAGGAAGTGGAGGAGATCAGTCTGCTGCAGCCGCAGGTGGAGGAGTCTGTGCTCAACCTGGGCAAATTCCACA
GCATCGTTCGTCTGGTGGCCCTTTTGTCCCTTTGCCTCATCCCAGGTTGCCTTGGAAAATGCCAACGCCGTGTCTG
AAGGGGTTGTTTCATGAGGACCTCCGCGCTGCTCTTGGAGACCCACCTGCCGTCCAAAAAGAAGAAAGTACTCTTGG
GAGTTGGGGATCCCAAGATTGGTGCCGCAATACAGGAGGAGTTAGGGTACAACCTGCCAGACTGGAGGAGTCATAG
CTGAGATCCTGCGAGGAGTTCGTCTGCACTTCCACAATCTGGTGAAGGGTCTGACCGATCTGTCTAGCTTGTAAAG
CACAGCTGGGGCTGGGACACAGCTATTCCCGTGCCAAAGTTAAGTTTAAATGTGAACCGGGTGGACAATATGATCA
TCCAGTCCATTAGCCTCCTGGACCAGCTGGATAAGGACATCAATACCTTCTCTATGCGTGTCTAGGGAGTGGTACG
GGTATCACTTTCCGGAGCTGGTGAAGATCATCAACGACAATGCCACATACTGCCGTCTTGCCAGTTTATTTGGAA
ACCGAAGGGAACTGAATGAGGACAAGCTGGAGAAGCTGGAGGAGCTGACAATGGATGGGGCCAGGCTAAGGCTA
TTCTGGATGCTCACGGTCTCCATGGGCATGGACATATCTGCCATTGACTTGATAAACATCGAGAGCTTCTCCA
GTCGTGTGGTGTCTTTATCTGAATACCGCCAGAGCCTACACACTTACCTGCGCTCCAAGATGAGCCAAGTAGCCC
CCAGCCTGTCAGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCTGGCAGCCTCACCAACCTGG
CCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCCTGTTTCAGAGCCCTGAAGACAAGGGGTA
ACACTCCAAAATATGGACTCATTTTCCACTCCACCTTCATTGGCCGAGCAGCTGCCAAGAACAAAGGCCGCATCT
CCCGATACCTGGCAAACAAATGCAGTATTGCCTCACGAATCGATTGCTTCTCTGAGGTGCCACGAGTGTATTTCG
GGGAGAAGCTTCGAGAACAAGTTGAAGAGCGACTGTCCTTCTATGAGACTGGAGAGATACCACGAAAGAATCTGG
ATGTCATGAAGGAAGCAATGGTTCAGGCAGAGGAAGCGGCTGCTGAGATTACTAGGAAGCTGGAGAAACAGGAGA
AGAAACGCTTAAAGAAGGAAAAGAAACGGCTGGCTGCACTTGCCCTCGCGTCTTCAGAAAACAGCAGTAGTACTC
CAGAGGAGTGTGAGGAGATGAGTGAAAAACCCAAAAAGAAGAAAAGCAAAAGCCCCAGGAGGTTTCTCAGGAGA
ATGGAATGGAAGACCCATCTATCTCTTTCTCCAAACCCAAGAAAAGAAATCTTTTTCCAAGGAGGAGTTGATGA
GTAGCGATCTTGAAGAGACCGCTGGCAGCACCAGTATTCCCAAGAGGAAGAAGTCTACACCCAAGGAGGAAACAG
TTAATGACCTGAGGAGGCAGGCCACAGAAGTGGCTCCAAGAAAAGAGGAAATTCTCCAAAGAGGAGCCGGTCA
GCAGTGGGCCTGAAGAGGCGGTTGGCAAGAGCAGCTCCAAGAAAGAAAAAGTTCCATAAAGCATCCCAGGAAG
ATTAGAATGCAAATGGACATTCTCTGGGAGGTGGGGCATACCATAGCCCAAGGTGACATTCCCACCCTGTGCCG
TGTTCCCCAATAAAAAACAAATTCACAAG

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FIGURE 5661

TGATACATCGTTGCTCATTTTGCAGAACATAACAGTTGCACATTGCAAGAGTCAACTTGCTTCGGGTCTTTTCAT
GCTCATGGCGGTATTGAGCGGAGTCCGCTGGCTGACCCGAGCGCTGGTCTCCGCCGGGAACCCTGGGGCATGGAG
AGGTCTGAGTACCTCGGCCCGGGCGCACGCTGCATCGCGGAGCCAGGCCGAGGACGTGAGGGTGGAGGGCTCCTT
TCCCGTGACCATGCTTCCGGGAGACGGTGTGGGGCCTGAGCTGATGCACGCCGTCAAGGAGGTGTTCAAGGCTGC
CGCTGTCCCAGTGAGATTCCAGGAGCACCACTGAGTGAGGTGCAGAATATGGCATCTGAGGAGAAGCTGGAGCA
GGTGTGAGTTCCATGAAGGAGAACAAGTGGCCATCATTGGAAAGATTTCATACCCCGATGGAGTATAAGGGGA
GCTAGCCTCCTATGATATGCGGCTGAGGCGTAAGTTGGACTTATTTGCCAACGTAGTCCATGTGAAGTCACTTCC
TGGGTATATGACTCGGCACAACAATCTAGACCTGGTGATCATTGAGAGCAGACAGAAGGGGAGTACAGCTCTCT
GGAACATGAGAGTGCAAGGGGTGTGATTGAGTGTGTTGAAGATTGTACACGAGCCAAGTCTCAGCGGATTGCAAA
GTTGCGCTTTGACTATGCCACCAAGAAGGGGCGGGGCAAGGTCAGTGTCTCCACAAGGCCAACATCATGAACT
TGGGGATGGGTGTGTTCTGCAAGTGTGTGAGGAAGTTGCTGAACTGTACCCCAAAATCAAATTTGAGACAATGAT
CATAGACAATGCTGCATGCAGCTGGTGCAGAATCCTTACCAGTTTGATGTGCTTGTGATGCCCAATCTCTATGG
GAACATTATTGACAATCTGGCTGCTGGCCTGGTTGGGGGAGCTGGTGTGGTCCCTGGTGAGAGCTATAGTGCAGA
ATACGCAGTCTTTGAGACGGGTGCCCCGCCACCCATTGCCCAGGCAGTGGGCAGGAATATAGCCAATCCCACGGC
CATGCTGCTGTGCGCTTCCAACATGCTGCGGCATCTTAATCTTGAGTATCACTCCAGCATGATCGCAGATGCGGT
GAAGAAGGTGATCAAAGTTGGCAAGGTGCGGACTCGAGACATGGGCGGCTACAGCACCAACCGACTTCATCAA
GTCTGTATCGGTACCTGCAGACTAAAGGGAGCTAGAGCCCTTTATTTCTTCCAACCTTGCAAGGACCACACTC
CCCATACCCCTTCAGTGCAGTGTACCAGGGAAGAGACCTTGTGCCTCTAAGCAGTGGACCATGGTCAACCCCTTGCT
GGGTAGAGCCTAGGTTGTCCTTGGGCCGGCTTCCTTAGGGGACAGACTGTTGGGTGGTGTGAGGATTGTTAGGA
TGGAGCCCAGGCCACATGGATGATGATGATTCTCCCCACAGGTTGGAACCTCTGACATGGGTGGCTATGCTACT
TGCCATGACTTCACTGAGGCTGTCATTGCTGCCTTGCCCCACCCATAGGCCCTGTCCATACCCATGTAAGGTGTT
CAATAAAGAACATGAACCAAAA

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FIGURE 5662

MAVLSGVRWLTRALVSAGNPGAWRGLSTSAAAAHAASRSQAEDVRVEGSFPVTMLPGDGVGPELMHAVKEVFKAAA
VPVEFQEHHLSEVQNMASEEKLEQVLSSMKENKVAIIIGKIHTPMEYKGELASYDMRLRRKLDLFANVVHVKSLPG
YMTRHNNLDLVIIREQTEGEYSSLEHESARGVIECLKIVTRAKSQRIAKFAFDYATKKGRGKVTAVHKANIMKLG
DGLFLQCCEEVAELYPKIKFETMIIDNCCMQLVQNPYQFDVLVMPNLYGNIIDNLAAGLVGGAGVVPGESYSAEY
AVFETGARHPFAQAVGRNIANPTAMLLSASNMLRHLNLEYHSSMIADAVKKVIKVGKVRTRDMGGYSTTTDFIKS
VIGHLQTKGS

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FIGURE 5663

ATGTGGGGGCTCCTGCTCGCCCTGGCCGCCTTCGCGCCGGCCGTGGGCCCGGCTCTGGGGGCGCCCAGGAACTCG
GTGCTGGGGCTCGCGCAGCCCGGGACCACCAAGGTCCCAGGCTCGACCCCGGCCCTGCATAGCAGCCCGGCACAG
CCGCCGGCGGAGACAGCTAACGGGACCTCAGAACAGCATGTCCGGATTTCGAGTCATCAAGAAGAAAAAGGTCATT
ATGAAGAAGCGGAAGAAGCTAACTCTAACTCGCCCCACCCCACTGGT¹GACTGCCGGGGCCCTTGTGACCCCACT
CCAGCAGGGACCTCGACCCCGCTGAGAAACAAGAAACAGGCTGTCTCTCTTTGGGTCTGGAGTCCCTGCGAGTT
TCAGATAGCCGGCTTGAGGCATCCAGCAGCCAGTCCTTTGGTCTTGGACCACACCGAGGACGGCTCAACATTCAG
TCAGGCTGGAGGACGGCGATCTATATGATGGAGCCTGGTGTGCTGAGGAGCAGGACGCCGATCCATGGTTTCAG
GTGGACGCTGGGCACCCCACCCGCTTCTCGGGTGTTATCACACAGGGCAGGAACTCTGTCTGGAGGTATGACTGG
GTCACATCATAAAGGTCCAGTTTCAGCAATGACAGTCGGACCTGGTGGGGAAGTAGGAACCACAGCAGTGGGATG
GACGCAGTATTTCTGCCAATTTCAGACCCAGAACTCCAGTGCTGAACCTCCTGCCGGAGCCCCAGGTGGCCCGC
TTCATTGCGCTGTGCCCCAGACCTGGCTCCAGGGAGGCGCGCCTTGCCCTCCGGGCAGAGATCCTGGCCTGCCCA
GTCTCAGACCCCAATGACCTATTCTTGGAGCCCTGCGTCGGGATCCTCTGACCTCTAGACTTTTCAGCATCAC
AATTACAAGGCCATGAGGAAGCTGATGAAGCAGGTACAAGAGCAATGCCCAACATCACCCGCATCTACAGCATT
GGGAAGAGCTACCAGGGCCTGAAGCTGTATGTGATGGAAATGTTCGGACAAGCCTGGGGAGCATGAGCTGGGGGAG
CCTGAGGTGCGCTACGTGGCTGGCATGCATGGGAACGAGGCCCTGGGGCGGGAGTTGCTTCTGCTCCTGATGCAG
TTCCTGTGCCATGAGTTCCTGCGAGGGAACCCACGGGTGACCCGGCTGCTCTCTGAGATGCGCATTACCTGCTG
CCCTCCATGAACCCTGATGGCTATGAGATCGCCTACCACCGGGTTTCAGAGCTGGTGGGCTGGGCCGAGGGCCGC
TGGAACAACCAGAGCATCGATCTTAACCATAATTTTGTGACCTCAACACACCACTGTGGGAAGCACAGGACGAT
GGGAAGGTGCCCCACATCGTCCCCAACCATCACCTGCCATTGCCCACTTACTACACCTGCCCAATGCCACCGTG
GCTCCTGAAACGCGGGCAGTAATCAAGTGGATGAAGCGGATCCCCTTTGTGCTAAGTGCCAACCTCCACGGGGGT
GAGCTCGTGGTGTCTACCCATTTCGACATGACTCGCACCCCGTGGGCTGCCCGCGAGCTCACGCCCACACCAGAT
GATGCTGTGTTTCGCTGGCTCAGCACTGTCTATGCTGGCAGTAATCTGGCCATGCAGGACACCAGCCCGGACCC
TGCCACAGCCAGGACTTCTCCGTGCACGGCAACATCATCAACGGGGCTGACTGGCACACGGTCCCCGGGAGCATG
AATGACTTCAGCTACCTACACACCAACTGCTTTGAGGTCACTGTGGAGCTGTCTGTGACAAGTTCCCTCACGAG
AATGAATTGCCCCAGGAGTGGGAGACAACAAGACGCCCTCCTCACCTACCTGGAGCAGGTGCGCATGGGCATT
GCAGGAGTGGTGAGGGACAAGGACACGGAGCTTGGGATTGCTGACGCTGTCATTGCCGTGGATGGGATTAACCAT
GACGTGACCACGGCGTGGGGCGGGGATTATTGGCGTCTGCTGACCCAGGGGACTACATGGTGAAGTGGCAGTGCC
GAGGGCTACCATTCAGTGACACGGAACGTGCGGGTCACCTTTGAAGAGGGCCCTTCCCTGCAATTTCTGTGCTC
ACCAAGACTCCCAAAACAGAGGCTGCGCGAGCTGCTGGCAGCTGGGGCCAAGGTGCCCCCGGACCTTCGAGGGCGC
CTGGAGCGGCTAAGGGGACAGAAGGATT**TGA**

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FIGURE 5664

MWGLLLALAAAFAPAVGPALGAPRNSVLGLAQPGTTKVPGSTPALHSSPAQPPAETANGTSEQHVIRIRVIKKKKVI
MKKRKKLTLTRPTPLVTAGPLVTPTPAGTLDPAEKQETGCPPLGLESRLVSDSRLEASSSQSFGLGPHRGRLNIQ
SGLEDGDLYDGAWCAEEQDADPWFQVDAGHPTRFSGVITQGRNSVWRYDWVTSYKVQFSNDSRTWWGSRNHSSGM
DAVFPANSDETPVLNLLPEPQVARFIRLLPQTWLQGGAPCLRAEILACPVSDPNDLFLEAPASGSSDPLDFQHH
NYKAMRKLKQVQECPNITRIYSIGKSYQGLKLYVMEMSDKPGEHELGEPEVRYVAGMHGNEALGRELLLLLMQ
FLCHEFLRGNPRVTRLLSEMRIHLLPSMNPDGYEIAHYHRGSELVGWAEGRWNNQSIDLNHNFADLNTPLWEAQDD
GKVPHIVPNHHLPLPTYTLPNATVAPETRAVIKWMKRIPFVLSANLHGGELVVSYPFDMTRTPWAARELTPTPD
DAVFRWLSTVYAGSNLAMQDTSRRPCHSQDFSVHGNIINGADWHTVPGSMNDFSYLHTNCFEVTVELSCDKFPHE
NELPQEWENNKDALLTYLEQVRMGIAGVVRDKDTELGIADAVIADVGINHDVTTAWGGDYWRLLTPGDYMTASA
EGYHSVTRNCRVTFEEGPFFPCNFVLTKTPKQRLRELLAAGAKVPPDLRRRLERLRGQKD

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FIGURE 5665

GCTGTGAGGCTCGGAGTCGCCGGAGGAGCCAGTATCTGTGTCGCCGCCGCCGCCGCCGCGTCCCCGGTTTGGTGCTG
CGGCGCCCACCTTCGGGAGGATCAGTATCTGGCACCAATTCTGACCCAGTCATTTGIGATCCCCTGGCTCTTGTGA
TATGCTGAAGATTTCCAGGCAGTTTTTGTGGAACACCTCCCCGTCCAGCTCTAATCAAGCACCATATAAACAAGA
AATTGCCTGGTCAAACTCTGTGAGGACTGTATTCTGACTGCCAAAGAGATCAATACTGACACCAGAATGGCAGCTA
CTCTCAAGTCATTAAAACTTGTAAGATACCGAGCATTCTTGCAGTCCTTCTGCCTTTGGTGACAGTCCGAAGTGTGT
CATACTGGAATGTGAGCAGCACACAGCATGGGGGACAGGACCCTCCAGAACACATTAGCCTCTGCCATTCTGCCA
AAAAAGTTAAGAACATATGTAGCACCTTCTCTTCTCGGAGAATCCTGACAACCAGCAGTGCCACCCAGGTTTGG
AATTCAGCAAGACTTCTTCTCTAAGGCCAGTACATTGCAGCTGGGCTCACCCAGGGCCACAGGAGTTGATGAAG
AGGACGTAGAAGTGTTTGATTCTTTGAAAACATGCGAGTTTTCTTACAGCTAAGACCAGAATACCGTGTTTACA
GCTATAATGCATCTGAGACTTCTCAGCTCCTGTCTGTTTTCAGAAGGTGAACATAATTTGCACAAAGTCAGAGTTA
ATCAAAATAATCTCCAGGCTCAAGTCATTGTTGATTATTTGTGTAAGCTGAGCTCTTTCCTGCAGAGCAGCATC
CTGTCTTGCTGGGAGTACAGCTTTGCTCTGCTCTGCCAGCTGAGTGTGAAGAAGATACAGCTCTTGTATACCC
AAGATCTGATCAATGTTTTGAAAGCTTTTGTCAATTTAGGAATCCCTCACTCCCATCAATGCTAGATGTGTATG
AGACCAAGTGTTGCCATCAGGTATGGGAGATGAATATGGATCAGCTCCTTTTGGTGGCTGATCTCTGGAGGTACT
TAGGCCGCAAAGTACCTAGGTTTTTAAACATTTTTCTAGTTATCTTAATTTGCACCTGGAAGGATCTATCCTTGT
CTCAGCTAGTTCACTTAATTTATGTTATAGGTGAAAATCGTCAGGTATCCCAGGACCTAATGCAAAAAATTGGAAT
CATTGATCCTTAAATATATAGATTTGATCAATTTGGAGGAGTTGGTACCATCTGTTTGGGGTTCTTTAAATCAA
GTACTAATCTCTGAATTTGTCAATGTCGCGAAAATTGGAGACTTGGCTTGTGCTAACATTACAGCATCTGAGTAGTC
GCTCCTTAGTGAATATTGTTAAAATGTTCCGTTTCACTCACGTGGATCACATCAATTTTATGAAGCAGATTGGAG
AGATAGCTCCTCAGCGAATTCCTTCCCTGGGAGTTCAAGGTGTCAATGCACCTGACTCTTACTGCTCGGCCTTAC
GCTTCTGAATGAAGGAGTAATGAATGCAGTGGCTGCGTCTTTGCCTCCTAGAGTGGCACACTGTCTGAAGTAAAG
ATGTTGCCAAGATTCTGTGGTCATTTGGAACCTCTGAATTATAAGCCACCCAATGCAGAAGAATTTTACTCCAGCC
TGATAAGTGAGATTCACAGAAAGATGCCTGAATTCACACAGTACCCAGAACACCTGCCACCTGCCTGCTGGGCC
TGGCATTCTTTGGAGTACTTCCAGTAGAGTTAATTGATTTGCTCTCAGTCCAGGGTTTGTGAGTTAGCTCAGG
AGAGAACTAAGTTTGACCTCCTTAAGGAACTATATACCTCGATGGTACAGTTGGCATTGAGTGCCAGATTACA
GAGGCAATCGTCTTAGTACTCACCTTCAGCAAGAGGGGTCTGAATTGCTGTGGTATTTAGCAGAGAAGGATATGA
ATTCAAAGCCTGAATTTCTAGAACTGTCTTTTACTGGAGACCATGCTGGGGGGGGCCAGTACGTCAAGCACC
ATATGATTTTGCTCATACCCGATCTTCTGACTTAGAAGTCCAGCTTGATGTTAACCTGAAGCCATTACCATTTA
ATAGAGAAGCCACGCCGGCTGAAAATGTAGCCAAATTAGGCTTGAGCATGTGGGAGTCAGCCTTACAGATGATT
TGATGAATAAGTTACTAAAAGGGAAAGCAAGAGGACATTTCCAGGGCAAACTGAGTCAGAGCCTGGGCAGCAGC
CCATGGAGTTGGAGAATAAGGCAGCTGTACCTCTGGGGGGCTTCTTTGCAATGTAGCAGATAAATCAGGGGCCA
TGGAGATGGCTGGCCTGTGCCCCGCAGCCTGCATGCAGACCCCAAGAATGAAGCTGGCTGTTTCAAGTTACAAAACA
GGAACCAGTATTGCTATGGCTCCAGGGATCTCCTTGGACTGCACAATATGAAGAGGCGGCAGCTGGCTCGGCTTG
GCTACCGTGTGGTAGAGTTATCCTACTGGGAATGGCTCCCACTACTGAAACGAACCTCGCTTAGAAAAGTTGGCGT
TTCTTATGAGAAAAGTATTACCTCTGCTCTCTGGAAGGGCATTAGGGGGCATTCTATGGCAAAGCTATAGGTGT
ATACTGTACCAGGTGTTGCAAAATGATTATAAAAGCCAGAATGTAAGTTTGGCGATAAAATAGTGTGTTGAGGAG
ACTTAATTGTATCCAAGGCAGGTTAGAGCTAGTGTATGTTACTGTGAATTGTAATGTAGTTGGATTGTACAAATT
ACTGCAATGTATACATGTTACTCTTAGTAAATAATAAACATCTTAATATGTCCTACGGTC

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FIGURE 5666

MAATLKSLKLVRYRAFCSPSAFGAVRSVSYWNVSSTQHGGQDPPEHISLCHSAKKVKNICSTFSSRRILTTSSAH
PGLFESKTSSSKASTLQLGSPRATGVDEEDVEVFDSFENMRVFLQLRPEYRVHSYNASETSQLLSVSEGELIILHK
VRVNQNNLQAQVIVDYLCKLSSLPAEQHPVLLGSTSFALLCQLSVKKIQLFDTQDLINVLKAFVILGIPHSHSML
DYYETKCCHQVWEMNMDQLLLVLADLWRYLGRKVPRFLNIFSSYLNHLWKDLSLSQLVHLIYVIGENRQVSQDLMQ
KLESLILKYIDLINLEEVGTICLGFFKSSTNLSEFVMRKIGDLACANIQHLSSRSLVNIVKMFRTTHVDHINFMK
QIGEIAQRIPSLGVQGVMMHLTLYCSALRFLNEGVMNAVAASLPPRVAHCRSKDVAKILWSFGTLNYKPPNAEEF
YSSLISEIHRKMPEFNQYPEHLPTCLLGLAFLEYFPVELIDFALS PGFVRLAQERTKFDLLKELYTLDGTVGIEC
PDYRGNRLSTHLQQEGSELLWYLAEKDMNSKPEFLETVFLLETMLGGPQYVKHHMILPHTRSSDLEVQLDVNLKP
LPFNREATPAENVAKLRLEHVGVSLTDDL MNKLLKGKARGHFQKTESEPGQPMELNKA AVPLGGFLCNVADK
SGAMEMAGLCPAACMQTPRMKLAVQFTNRNQYCYGSRDLLGLHNMKRRQLARLGYRVVELSYWEWLPLLKRTRLE
KLAFLHEKVFTSAL

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FIGURE 5667

CCTGGCCGGAAACTGAGCCGTTCACTTCCGCCACCAGCCGGAAGTTTTCTGTCACTGGACGCCAAGGAGTTTTCG
GTGGCTCAGCTGGGTAAACCGGGGATCACCATGGCGGCCTCATTGGTGGGGAAGAAGATCGTGTTTGTAAACGGGGA
ACGCCAAGAAGCTGGAGGAGGTCGTTTCAATTCTAGGAGATAAGTTTTCCATGCACCTTTGGTGGCACAGAAAATTG
ACCTGCCGGAGTACCAGGGGGAGCCGGATGAGATTTCCATACAGAAATGTCAGGAGGCAGTTCGCCAGGTACAGG
GGCCCGTGCTGGTTGAGGACACTTGTCTGTGCTTCAATGCCCTTGGAGGGCTCCCCGGCCCCACATAAAGTGGT
TTCTGGAGAAGTTAAAGCCTGAAGGTCTCCACCAGCTCCTGGCCGGGTTCGAGGACAAGTCAGCCTATGCGCTCT
GCACGTTTGCACTCAGCACCGGGGACCCAAGCCAGCCCGTGCCTGTTTCAGGGGCCGGACCTCGGGCCGGATCG
TGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCTGCTTTCAGCCTGATGGATATGAGCAGACGTACGCAG
AGATGCCTAAGGCGGAGAAGAACGCTGTCTCCATCGCTTCCGGGCCCTGCTGGAGCTGCAGGAGTACTTTGGCA
GTTTGGCAGCTTGACTTCTGCAGCTGGAGGAGGCCCTCAGGCCGGGGATCTGGGGAGGGCTAGCCCCAAACCTC
CCGCATCGGGCAGGCACCCCTGAAGTACTTCCCTTCAGGGTTTCCCTTTGTGAGGGTGTGAGTAGCCTCACCG
GCCTGTCTGGAGGAGCAGCTGGCTCTGCTCTGAGAACTCTGGCAAGTGGACGCCATTCTCTTGCCTTAGGATT
CACTGCTCTCTCTACAGCCGCCAGGCCTGGGGTCTGAAAGGACCTTGGGTGGTAAAGCTGTACTTGGTGGGAG
TGAGGGCGTGGGGAGGAACCATGCAAATCGCCTTCCATGGTTTTTAAATGCAGTAAATAACATTCTGGATGAGA
CTTGTTCCTCAAAATAAACAGCTATATCTGTTTTG

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FIGURE 5668

GTGCTCGGCGTTGAGCTCCTGCAGCCGCCGCCGCTGCAGTGGTTCGTCCCTGCCCTCCCCGGCCCCGGGGTGCACC
CCGCAAGGCTCCCGCTGGTGTCCCTGGAGCATGGGAGGCTGCTGAGCGTGAGTGGCGGTGTCTGGCAGGAGCTGC
GTGGCAGGGAGGGCGTCC**ATGG**CTGCAGCCAACAAGGGCAACAAGCCCAGAGTCCGGGGTATCCGCTTTGCGGCA
GGCCACGATGCAGAAGGATCCACAGCCACGTCCACTTTGATGAGAAGCTGCATGACTCGGTGGTCAATGGTCACC
CAGGAGAGTGACAGCAGCTTTCTGGTCAAGGTTGGCTTCCTGAAGATCCTGCACAGGTATGAGATTACCTTCACT
CTGCCCCCAGTGCACAGGCTGAGCAAGGATGTCCGCGAGGCACCTGTCCCCAGCCTGCACCTCAAGCTCCTCAGC
GTGGTGGCCGTCCCTGAAGGTTATAGTGTCAAGTGTGAGTACTCGGCGCACAAAGAGGGCGTCTCAAAGAGGAG
ATACTGCTAGCCTGCGAAGGTGGCACTGGCACCTGTGTGCGCGTGACGGTGCAGGCCCGCGTCATGGACCGGCAC
CACGGCACGCCCATGCTGCTGGATGGTGTCAAGTGTGTGGGCGCCGAGCTGGAATACGACTCAGAGCACAGCGAC
TGGCACGGCTTTGACT**TGA**GGCCCCGAGGCCCGCCTGCCCCGGGCCCCCTCAGCCTTAAACCCCGCCTTGTCCTCCC
GACATGCTGCGTGATGGTGTGGCTTCCTCGCCCCCTCTCTGGGGTGGGTGTGGGGGTGGAGTGGCCTTGCCACGC
CTCTCACCTCTGCCTTCATTTGTGCTGCCACCCTGCCCCCTCCCTCGTCCTCCTCTCCCACTTCCTCCTCTCTGTG
TGCTCAGTCTCCTGCCGAAGAAATGGGTTGATCCCGAAAGGAGGCTGTCTGAGGAAGGGAGAGGGAGGGCCTG
GGGTGGGTCCCCCACTCCCCACCCCAAGCCACAGGGACTCCCAACAGGGTCTGGGAGAGGACGGAGCTGGCTCTG
TGGCGTCGTGGCCCCATTACTGCTGCCTTGCTTCAGCCACCTCTCCTGCCCCCTCCCTAGTCCCCACTGCTGTCCA
CCATGAGTAGGAGGGAGGTGCAGTCCCCAGCCCCACCCCTCAGGTCTGTGTTACTTGGTTTTTAAGCGACTGGT
TGGGATAGAACCCTAAAGAAATAAACTTCCAGTGGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5669

MAAANKGNKPRVRGIRFAAGHDAEGSHSHVHFDEKLHDSVVMVTQESDSSFLVKVGFLKILHRYEITFTLPPVHR
LSKDVREAPVPSLHLKLLSVVPVPEGYSVKCEYSAHKEGVLKEEILLACEGGTGTCVRVTVQARVMDRHHGTPML
LDGVKCVGAEELEYDSEHSDWHGFD

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FIGURE 5670

ACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGCAGAGCCACATCCTCCACTTGG
AACACGATCTGGTTTCATGTGACCAGGAAGAACCACGCCAGGATTGGAGGTTTCCAAGAGGCCCCCACC GTGGAA
GTAACCAAGGGCGCTTCCTTGTGGGCAGCTGCAGGCCCATGCCTCTCCTCCCTCTCTGGCAGGGCCCCATCCTG
GGCAGAGGGGCCTGGGGCTGGGCCAGAGTCCAGCCGTCCAGCTGCTCCTTCCCAGTTTGATTTCATAAATCT
GTCCACTCCCCTTTTGTGGGGGTGAACGTTTTAACAGCC

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FIGURE 5671

CGACAGCTGACGTTCCGGGAGAAATCACGGATCATCCAGGAGGTGGAGGAGAATCCGGACCTGCGCAAGGGCGAG
ATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGCGCCATCCTGGCGTCG
GAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGACAAGCTCGAGGGCTTG
CTCATCGCCTGGTTCCAGCAGATCCGCGCCGCGCGCCTGCCGGTCAAGGGCATCATCCTCAAGGAGAAGGCGCTG
CGCATAGCCGAGGAGCTGGGCATGGACGACTTACCGCCTCCAACGGCTGGCTGGACCGCTTCCGCCGGCGCCAC
GGCGTGGTGTCTGACAGCGCGTGGCCCGCGCCGCGCGGAAACGCTGCCCCCGCACCCCGCGCGCGCCTGCC
AGTCCGGCCGCGGTGCCCTCGGAGGGCAGTGGCGGGAGCACTACTGGTTGGCGCGCTCGGGAGGAGCAGCCGCCG
TCGGTGGCCGAGGGCTACGCTCGCAGGACGTGTTACGCGCCACCGAGACCAGTCTATGGTACGACTTCTTGCCC
GACCAGGCCGCGGGGCTGTGCGGAGGCGACGGACGGCCGCGTCAAGCCACCCAGCGCCTGAGCGTCTGCTATGC
GCCAATGCCGACGGCAGCGAGAAGCTGCCCCGCTGGTGGCCGGCAAGTCGGCCAAGCCCCGCGCAGGCCAAGCC
GGCCTGCCCTGCGACTACACCGCCAACTCCAAGGTGGTGTACCACCCAGGCCCTGGCCAAGTACTTGAAGGCC
TTGGACACCCGAATGGCTGCAGAGTCTCGCCGGTCTGCTGTTGGCCGGCGCTTGGCTGCCCAGTCCCTGGAC
ACCTCGGGCCTGCGGCATGTGCAGCTGGCCTTCTTCCCTCCCGGCACCGTGCATCCGCTGGAGAGGGGAGTGGTC
CAGCAGGTGAAGGGCCACTACCGCCAGGCCATGCTGCTCAAGGCCATGGCCGCGCTAGAGGGCCAGGATCCCTCA
GGCCTGCAGCTGGGTCTCACGGAGGCCCTGCACTTTGTGGCTGCCGCTGGCAGGCAGTGGAGCCTTCGGACATA
GCCGCTGCTTTCTGAGGCTGGCTTTGGGGTGGCCCTAATGCCACCATCACCCTTCCCTCAAGAGTGAGGGA
GAGGAAGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAAGAGGGTGAAGGAGAGGAAGAGGAGGAGGAAGGGGAG
GAGGAGGAGGAGGAAGGGGGGGAAGGAGAGGAATTGGGGGAGGAAGAGGAGGTGGAGGAGGAGGGTGATGTTGAT
AGTGATGAAGAAGAGGAGGAAGATGAGGAGAGCTCCTCGAGGGCTTGGAGGCTGAGGACTGGGCCCAGGGAGTA
GTGGAGGCCGGTGGCAGCTTCGGGGCTTATGGTGCCAGGAGGAAGCCAGTGCCCTACTCTGCATTTCTGGAA
GGTGGGGAGGACTCTGATTCAGACAGTGAGGAAGAGGACGATGAGGAAGAGGATGATGAAGATGAAGACGACGAT
GATGATGAGGAGGATGGTGATGAGGTGCCTGTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAG
AGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGCAGAGCCACATCCTCCACTTGAACACGATCTGGTTTCAT
GTGACCAGGAAGAACCACGCCAGGCAGGCGGGAGTTCGAGGTCTTGACATCAAAGCTGAGTCACTGGACCTAGC
TGTGCCCCCAACCTAGATTGGCAGCACCACCCAGGGCAGAGGACTCTTGGGCACCCGCTGTGCATGGAGCCAG
AGTGACAGAGCCCCAGATCCTTTAGTAATGCTTCCCTGGTCTGCAACAGGCCCGGTACCTCGGCCGGGCCCCGG
GGCTGAGGTGAGCCTCACTGCCTGCTTATTGCCTCTTCTCAGAATCCTCTTCTCCCATTTGGCCCTGGGCT
CAGGGGACCAGGTGGGGCGGGTGGGGAGCTGTCCGGTGCTACCACACCGTGCCCTCAGTGGACTAACCACAGCAG
CAGCCAGGGATGGGCCCTGGAGGTTCCCGGCCGAGAGTGCTCTCCCTCTGCCATCCACGTCAGGTCTTTGGT
GGGGGACCCCAAAGCCATTCTGGGAAGGGCTCCAGAAGAAGGTCCAGCCTAGGCCCCCTGCAAGGCTGGCAGCC
CCCACCCCAACCCCAAGGCCGCTTGAGAAGCACAGTTTAACCTACTGCGGGCTCCTGAGCCTGCTTCTGCCTG
CTTTCCACCTCCCCAGTCCCTTTCTTGGCCCTGTCCATGTGACTTTGGCCCTTGGTTTTCTTTCCAGATTGGAG
GTTTCCAAGAGGCCCCCACCCTGGAAGTAACCAAGGGCGCTTCCCTGTGGGCAGCTGCAGGCCCATGCCTCTC
CTCCCTCTCTGGCAGGGCCCCATCCTGGGCAGAGGGGCTGGGGCTGGGCCAGAGTCCAGCCGTCCAGCTGCTC
CTTTCCAGTTTGATTTCAATAAATCTGTCCACTCCCTTTTGTGGGGGTGAACGTTTTAACAGCC

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FIGURE 5672

MDDFTASNGWLD RFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSEGS GGSTTGWRAREEQPPSVAEGYA
SQDVFSATETSLWYDFLPDQAAGLCGGDGRPRQATQRLSVLLCANADGSEKLPPLVAGKSAKPRAGQAGLP CDYT
ANSKGGVTTQALAKY LKALDTRMAAESRRVLLL AGR LAAQSLDTSGLRHVQLAFFPPGT VHPLERGVVQQVKGHY
RQAMLLKAMAALEGQDP SGLQLGLTEALHFVAAAWQAVEPSDIAACFREAGFGGGPNATITTS LKSEGE EEEEEEE
EEEEEEEGEGEEEEEEEGEEEEEEEGGEGEELGEEEEVEEEGDVDSDEEEEEDEESSEGLEAEDWAQGVVEAGGSF
GAYGAQEEAQCP TLHFLEGGEDSDSDSEEDDEEEDDEDEDDEDDDDDEEDGDEVPVPSFGEAMAYFAMVKRYLTSFP
IDDRVQSHILHLEHDLVHVTRKNHARQAGVRGLGHQS

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FIGURE 5673

ATGGGCCCCAAGAGGCGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGAC
CTGCGCAAGGGCGAGATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGC
GCCATCCTGGCGTCGGAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGAC
AAGCTCGAGGGCTTGCTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCCTGCCGGTCAAGGGCATCATCCTC
AAGGAGAAGGCGCTGCGCATAGCCGAGGAGCTGGGCATGGACGACTTCACCGCCTCCAACGGCTGGCTGGACCGC
GTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGAC
CGCGTGCAGAGCCACATCCTCCACTTGAACACGATCTGGTTCATGTGACCAGGAAGAACCACGCCAGGCAGGCG
GGAGTTCGAGGTCTTGGACATCAAAGCTGA

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FIGURE 5674

AGAGGCTTCCCTGGCTGGTGCCTGAGCCCGGCGTCCCTCGCCCCCGCCCTCCCCGCATCCCTCTCCTCCCTCGC
GCTGGCCCTGTGGCTCTTCCCTCCCTCCCTCCTTCCCCCCCCCCCCACCCCTCGCCCGCTGCTTCCCTCGGCCCA
GCCAGCTGTGCGGGCGTTTGTGGCTGCCCTGCGCCCGGGCCCTCCAGCCAGCCTTCTGCGGGCCCCGCCGCGATG
GAGGTGCCCCAGCCGGAGCCCGCGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCCAGCGTCCG
GGCCACCTCCCGGGCCTCCTGCTGGGATCTCATGGCCTCCTGGGGTCCCCGGTGGGGCGGCCGCTTCCCTCGCCG
GTCACCACCCTCACCCAGACCATGCACGACCTCGCCGGGCTCGGCAGCCGCAGCCGCTGACGCACCTATCCCTG
TCTCGACGGGCATCCGAATCCTCCCTGTGCTCTGAATCCTCCGAATCTTCTGATGCAGGTCTCTGCATGGATTCC
CCCAGCCCTATGGACCCCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTGCA
AACGAGCAGTTTGCCATCAGACGCTTCCAGTCTATGCCGGTGAGGCTGCTGGGCCACAGCCCCGTGCTTCGGAAC
ATCACCAACTCCCAGGCGCCCGACGGCCGGAGGAAGAGCGAGGCGGGCAGTGGAGCTGCCAGCAGCTCTGGGGAA
GACAAGGAGAATGTGCGCTTCTGGAAGGCCGGGTGGGAGCTCTCCGGGAAGAGGAGGGGCGATGCTGGGGTGGT
TCCCTGGCATGTGAGGACCCTCCTCTCCCATCTTGGCTGCAGGATGGATTGTCTTCAAGATGCCATGGAAGCCC
ACACATCCCAGCTCCACCCATGCTCTGGCAGAGTGGGCCAGCCGCAGGGAAGCCTTTGCCAGAGACCCAGCTCG
GCCCCGACCTGATGTGTCTCAGTCCTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCCCTAGGTTCGC
TTCTCTCTGACCCCTGCAGAGGGGGATACTGAGGAAGATGATGGATTGTGGACATCCTAGAGAGTGACTTAAAG
GATGATGATGCAGTTCCCCCAGGCATGGAGAGTCTATTAGTGCCCCACTGGTCAAGACCTTGGAAAAGGAAGAG
GAAAAGGACCTCGTCATGTACAGCAAGTGCCAGCGGCTCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGG
CCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACACGCCCGTGCAAGAATAAGCGGAGGCGGAGCGTGACC
CCTCCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCGCTCCTCCGCTCAAAATCACTGTGTACGATGAG
ATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTCTAAGGCCTTCTCCTACAGACAGTA
GACGGAAAGCACCAAGACCTCAAGTACATCTCACCAGAAACGATGGTGGCCCTATTGACGGGCAAGTTCAGCAAC
ATCGTGGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGCGGGCACATCAAGACTGCGGTG
AACTTGCCCCCTGGAACGCGACGCCGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAGA
GTCATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCCGCATGTGCCGTTTCATCAGGGAACGAGAC
CGTGCTGTCAACGACTACCCAGCCTCTACTACCCTGAGATGTATATCCTGAAAGGCGGCTACAAGGAGTTCTTC
CCTCAGCACCCGAACCTTCTGTGAACCCAGGACTACCGGCCCATGAACCAGAGGCCTTCAAGGATGAGCTAAAG
ACCTTCCGCCTCAAGACTCGCAGCTGGGCTGGGGAGCGGAGCCGGCGGGAGCTCTGTAGCCGGCTGCAGGACCAG
TGAGGGGCCCTGCGCCAGTCCCTGCTACCTCCCTTGCCCTTTCGAGGCCTGAAGCCAGCTGCCCTATGGGCCTGCCG
GCTGAGGGCCCTGCTGGAGGCCTCAGGTGCTGTCCATGGGAAAGATGGTGTGGGTGCTCTGCCTGTCTGCCCCAGC
CCAGATTCCCTGTGTATCCCATCAFTTTCCATATCCTGGTGCCCCCACCCCTGGAAGAGCCCAGTCTGTTGA
GTTAGTTAAGTTGGGTTAATAACCAGCTTAAAGGCAGTATTTTGTGTCTCCAGGAGCTTCTGTTTCCCTTGTAG
GGTTAACCCTTTCATCTTCTGTGTCTGAAACGCTCCTTTGTGTGTGTGTCAGCTGAGGCTGGGGGAGAGCCGTG
GTCCCTGAGGATGGGTGAGAGCTAAACTCCTTCCCTGGCCTGAGAGTCAGCTCTCTGCCCTGTGTACTTCCCGGGC
CAGGGCTGCCCCAATCTCTGTAGGAACCGTGGTATGTCTGCCATGTTGCCCTTTCCTCTTTTCCCCCTTCTCTGT
CCCACCATACGAGCACCTCCAGCCTGAACAGAAGCTCTTACTCTTTCCTATTTTCACTGTGTACCTGTGTGCTTGGT
CTGTTTGACTTTACGCCCATCTCAGGACACTTCCGTAGACTGTTTAGGTTCCCTGTCAAATATCAGTTACCCAC
TCGGTCCCAGTTTTTGTGCCCCAGAAAGGGATGTTATTATCCTTGGGGGCTCCCAGGGCAAGGGTTAAGGCCTGA
ATCATGAGCCTGCTGGAAGCCAGCCCTACTGCTGTGAACCTGGGGCTGACTGCTCAGAACTTGCTGCTGCTC
TTGTTGCGGATGGATGGAAGGTTGGATGGATGGGTGGATGGCCGTGGATGGCCGTGGATGCGCAGTGCCTTGAT
ACCCAAACCAGGTGGGAGCGTTTTTGTGAGCATGACAGCCTGCAGCAGGAATATATGTGTGCCTATTTGTGTGA
CAAAAATATTTACTTAGGGTTTGGAGCTATTCAAGAGGAAATGTCACAGAAGCAGCTAAACCAAGGACTGAGC
ACCCTCTGGATTCTGAATCTCAAGATGGGGGAGGGCTGTGCTTGAAGGCCCTGCTGAGTCATCTGTTAGGGCCT
TGGTTCAATAAAGCACTGAGCAAGTTGAG

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FIGURE 5675

GGGTCTGTCTCTTGCTTCAACAGTGTTTGGACGGAACAGATCCGGGGACGGTCTTCCAGCCTCCGACCGCCCTCC
AATTTCTCTCTCCACTTGCAACCTCCGGGACCATCTTCTCGGCTATCTCCTGCTTCTGGGACCTGCCAGCACC GTT
TTTGTCGTTAGCTCCTTCTTGGCGACCAACCATGAGCTCCCAGATTTCGTCAAAATTATTCCACCGACGTGGAGGC
AGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTTCGACCG
CGATGATGCGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGACCGAGGAGAAGCGCGAGGGCTACGAGCG
TCTCCTGAAGATGCAAAACCAGCGTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAGATGAGTG
GGGTAAAACCCCAGATGCCATGAAAGCTGCCATGGCCCTGGAGAACCCCCATCTCTGTGACTTCTTGGAGACTCA
CTTCCTAGATGAGGAAGTGAAGCTCATCAAGAAGATGGGTGACCACCTGACGAACCTCCACAGGCTGGGAGGCCC
AGAGGCTGGGCTGGGCGAGTATCTCTTCGAAAGGCTCACTCTCAAGCACGTCTAAGAGCCTTATGAGCCCAGCGA
CTTCTGAAGGGCCCCCTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTTCTTA
ACTACCCTAA

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FIGURE 5676A

GGGGAGGAAGAAAGGCGAAGGCAAGGCGAAGGGGTGGAGAGTGATATGAAGAGCGAGAGAAAAGAGAGGACAGCG
GACGAGCAGATCCGGTATCTGGAATCCCGGCGCCTAGAACGTGTTTTTCGGGAGAGCAAAGGCTGTGTCTACGGC
AGGCTGGGGATATAGCCTCTCCTTCCGATGAAAAGAGAAAGGAAGAAATGGACTACAGCCACCAAACGTCCCTAGT
CCCATGTGGACAAGATAAATACATTTCCAAAAATGAACCTTCTCTTGATCTGAAGACCTACAACCTGTACTATGA
AGGCCAGAATTTACAGCTCCGGCACCAGGAGGAAGAAGACGAGTTTATTGTGGAGGGGCTCCTGAACATCTCCTG
GGCCTGCGCCGGCCCATTCGCTGCGATGAGGATGACAACGAACGCATTGACCCCTCCATCCTCCTCCTC
CTGGCACTCTGGCTGTAACCTGGGGGCTCAGGGAACCACTCTGAAGCCCTGACTGTGCCCAAAGTTCAGATCTC
AGAGGTGGATGCCCCGCCGGAGGGTGACCAGATGCCAAGCTCCACAGACTCCAGGGGCTGAAGCCCTGCAGGA
GGACACCCACAGCTGATGCGCACACGCAGTGATGTTGGGGTGCGTCGCCGTGGCAATGTGAGGACGCTTAGTGA
CCAGCGGGCAATCAGACGCCACCGCTTCTCCATCAACGGCCATTTCTACAACCATAAGACATCCGTGTTACACC
AGCCTATGGCTCTGTCAACACGTCCGCATCAACAGCACCATGACCACCCACAGGTCTGAAGCTGCTGCTCAA
CAAATTTAAGATTGAGAATTCAGCAGAGGAGTTTGCTTGTACGTGGTCCATACGAGTGGTGAGAAACAGAAGCT
GAAGGCCACCGATTACCCGCTGATTGCCCGAATCCTCCAGGGGCCATGTGAGCAGATCTCCAAAGTGTTCCTAAT
GGAGAAGGACCAGGTGGAGGAAGTCACCTACGACGTGGCCCAAGTATATAAAGTTCGAGATGCCGCTACTTAAAG
CTTCATTGAGAAGCTCCAGGAGGAAGAAGATCGGGAAGTAAAGAAGCTGATGCGCAAGTACACCGTCTCCGGCT
AATGATTCGACAGAGGCTGGAGGAGATAGCCGAGACCCAGCAACAATCTGAGCCATGAGAACGAGGGGATCTGG
GCACCCAGGAACCGCCATTGCCATAAGACCCCAAGGAAGCTAGGCACCTTCTTTCCATGGAAACATTTAGACA
CAAACCTCCCCAGCTCCGGCCAAGCCATCATTTGCTACCTGGAGCTGGATGTAGAAGTCAGCAGACAGCTCCCTA
TCCCTGGACCCCTGCCCTCCTTTTTTCTGCTCACAAGGACTTTTGATTTTAGTTATAAGGAGGACCCAAAATGTG
TGTGTGTACATGTGTGTGCACACATGGTACGTGTCCATGTGCCTACCTGATACTTTACATGTAATTAATTTCCA
GGCAACCAGCACAAGAGCCGTGAGCTTGGCACATGTGCTGCTCGTGAGCAGGAAAAATCAGAGGAGCCACTGATCT
GAGTGGTATTTAGGTTGAAGGAAAGATTTCTCCTCTCAAGTGCCAGGGAGCAGCCACACGCTGTGTCTGTGTTAG
AGAGGGAAGAGGGTTCTCCAGGTTACCATTTGGGTTGTTTATATGTTGGTAGAAATTTCTCCCTGTATGCCTAGA
AGGATCAGTGAATGTAAGAGCCTTGGAATTAACAAAATAACAGCCACATAACCTTGCGCAAGTCTGATGGAAA
GAAAAAGATAAACCATCCGTGGGGTAGATGCAATAAGCCACGTATTTTACACTGGAAACGTTGATTGTTTTAA
ATGACAAAGACATATGTGATGTTCTATGTGGAACCTGTGAAGAGTGGATTCTGCCTCCATCTCTGCCTCCATGG
CTACCTTTAGGAGACAGAGAAGATCCTGTGTGTTTCTCTGTACCCAGCTGACAGCCTGTCTCTATGGCGCTTCTT
TGAGTGGAAGGAAATGTCTCAAGAAACAAAGATCTCGCTGGTGCGTACACAGTGCTGACCAGCTAGTGTGGCCAG
GGCCTGGTGGCCTGGTGGCCAGGAAGTTTCAGGTTGAAGGAAATGTGAGGCTACCTGCAGATATGACAGGTGC
CTTGAACGCAGCCCATCTTCATGTCTCAAAAGGCTTCTGCACTTGAAGCTGGGGCGATGTTTGACGTCAAGAC
CATCTTTTCAAACCTCTGGGTTCTTGCAAGTTGCCCTCACCTTGTGTGTGGAGATGCATTCCAAGAATGAAGCCT
CATCTTGCTACTGAGTGTGGGGTTTCAAGGAAGCTCTTTAGGCCACCTGGTGAAGGTGCATGGGGAGGATGGAGCT
TCTCCTCAGCTCCTCTGAGCAGCCACCTATGTGATCTTTAAATCCAACCCCAATGGGAGAAAAGGGCAAGAACAG
TCTGTGCCCTGGGACTCCTATCAGGAAGCTTGACAGGCAGCTGGGCATCAGTGCAGCTGATATCGTTTGAGGAGG
GAGACAGATGCTTGGACCTGGGTAGAGGCACTGCCATCTTCTCCACCTTCTCTCCACAGAATGTTTGACAGAGCTG
TCTTTGAGCCTAGCTGGGGTAGAGGCACTGCCATCTTCTGAGAAGGCTCACAGCTGTGGTCTTAACGTAGAC
GGCAGTTGAGGAAAGGACAGCCCTGGTTGGTGCCCTCAAAGGAAGGTGGACTTTTTTGGTGGAGACGTTTCTGC
CCTGGGCACCTCCTGCCCCGATTATACCTATGGCTTCTTGAGAAGGCTCACAGCTGTGGTCTTAACGTAGAC
TGCAGAAAGATGGCATGCGGCCCTGGCATTTCGCCAAGGGTTTTATAGCAAGTCTCCTTCCATAGGGACAG
CAGCACCAGCCCTGTGGGGCATGGAGTGGAAGGCCAGAGGGCTTCTGCAAGCTGCACAGAAGCTGGGGTAAGAAG
ACAAAGAGTAGCCACCGGGAGAGGCTTCTTTGTTACAGCTGGGAAAGAAGAGTCTGTGAATGCAACACCTCC
TGAGTTTTGCAATTGAGAAAATGATTTGGAGAATCTCTTCTGGTAATTTTTATTTTGAATGTTTCAAGGCTTA
GTTGGCCCCAGTAATTTCTCCTTGGAGGACTTGGGAGAAGAATTTCCACAAAGCAAACTACTAACCCTAGCTCTT
ACTGGACAGCGATTTCTGGCTTATAAGAGTTCTCTTTGATTTGCACTAGCACTACGATAGTGTAGATGGGGAAA
TACTGCAACATGTCCAGTTGGCCAGATCACTTTCCAAGGGAGCGATACTAAGGCAGACTCAGCTTTTTAAAGATG
GGAGGTGAGGAGGTGGAAGTGAGAGGAGATCCATCTCACACAACACACTTCCACGTAATGCAGACCACACTTTT
CCATTTTGTCTGCTCCTTGGAGAGTCACTTCTCACGTCTTAAGAACCTGATCAGAAATTTTGAAGGGTCTT
TGAAATAGCAGCAGTTGAAACAGAGACACTTTGCCACAGTGTGGAGCAGATTTTCTCACTGGTATCACATGGTCT

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FIGURE 5676B

TGCAGTTTTGAACTCTTCGACCGATTTGTGGGAGTTTATGTAATTGCGTGCAATGAACCTGAAATTGTGTAAAGG
ACAAAAGACCAGTTTATAGGGTTGGGTTTTTTTTTCCAACCTTGTGAAAAGCAGTTTAGCTGCATCTGCTCCCCAC
CACCCCCACCCCGGGAGGGGCTTATGTTACAAGGTGATCAAGTGAAGGAAAAACCTGAGCCTATCTGGCTGGGAT
GGTGGAATTAAGCACAAAGGTCACATTCTCTGTGATCACATGAGAGGGAAGGTGATGACTTAAATGGCAGGGGGGTG
GGGATTATCTTGGGGAGAGGCTGAAAAGCACAAAAGATAGTCTTCCCTGTACGTATTGGTGAAGAACGTGCACAA
GGCTGGATGGACTTCAACTTGGAGTTGAGTTGAGGCAAGAGGATTTCTGGATATTAGTCACCCATCTGCAAGAAA
AATGCTGAGGCCTCGGGTCAAGATTTTGTATCTGAGACATGCTGATGCTTCAAGGAGAAATATTTTCACAATCCTC
TCTTCCCTCACCAGAAGAGAACAGTACTCTCTCCTAGAAAACCTCTAGGTAACACATTTTATCCTAATATCGGTA
GCATATAATGCCCCCCCCAAAATATCTGTTTTCCATGCAAAAAAGTCTCAACAAGAAGTCTGTGGAGTTGAGTGG
TTACTTCAAAGTGTGAGGAGAGTGAAGAAATTGGCCACAGAAGAGCAAGAAGCTCTCTTAAGAAAAGGGAATTCT
CTTTAAAGAAAACCACCACCAACAACAAAACAACCAAAAACCATGTTTTATGTCAAAGCTCTGTAGCACAGAGAAT
GTGGTGTACAGATACATCGCCGAGAGAGGTTTTCTTTCTTTCTTTTTTTTTTTTTTTGAGACAGAGTCTGGTTCTG
TTTCCCAGGCTGGAGTGCAGTGGTGGGATCTCAGCTCACTGCAACATCCGCCTCTGGGGTTCAAGTGATTCTCCT
GTCTCAGCCTCCCAAGTAGCTGGAATTACAGGGACCCGCCACCACGCCCGGCTAATTTTTTTGTGTGGTTTTAGT
AGAGGTGGGGTTTTACCATCTTGGCCAGGCTGGTCTTGAACCTCTGACCTCGTGATCCACCCGCCTAGGCCTCCC
AAAGTGTGGGATTACAGGCGTGAGCCACTGTGCCAGCCAAAAGAGAAATTTCTACATGAACAAGGCAATTTCA
GTGCTTACAGCGGCCAAACCATGACGTGAAGAATGAGATAGGAGACAGGAGATCACCATAAGCGTCCCTGATAT
AGCAGCACACATTTTACGTTTCCACTTAAATCGTTTTGCACAAAGTCTTGCTTCGCTCAGATGAGATGAGATAT
GATTTCTAGAGATGTAAAAATAAGAATGAATGTGGCGCCCCCTTCTTCCAGATGTAATAGAAAGCTCTGCCCTA
TCACAAGGGGGGTGTTGAAGCGCCCCCTTGTGTTTTAACTGTATTTAACTGAGCACAAGATGCACAAGCTGTGGTG
GGAAACCCTCAGTTTACCTTTGGAGTCTTCCCTGCAGATCGCAGACCTGTTTCCAGGCTGATGTTTCTGGTGTGT
AATTGCTAGCGTTTCTGAAGGGTTTTCCCAATTGTTTTAGCCTTGTGAAGTATTCTTAATTATAACTTGCCTTTC
AGCGATGGTACATGACTTGATTCAACGTTTGGTTCTGAACCTTACACACTGATGCGTTTACTCATCTAACATAATC
TGACAGGGCCTCAGCAAGGGAGCCATACATTTTGTAAACATTTTGATATGTTTTAATGCATCTGACTTAGATCTT
ACTGAAATAAAGCACTTTTCAAAGAG

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FIGURE 5677

MDYSHQTSLVPCGQDKYISKNELLLHLKTYNLYYEGQNLQLRHREEEDEFIVEGLLNISWGLRRPIRLQMDDNE
RIRPPSSSSSWHSGCNLGAQGTTLKPLTVPKVQISEVDAPPEGDQMPSSSTDSRGLKPLQEDTPQLMRTRSDVGVR
RRGNVRTPSDQRRIRRHRSINGHFYNHKTSVFTPAYGSVTNVRINSTMTTPQVLKLLLNKFKIENSAEEFALYV
VHTSGEKQKLKATDYPLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEMPVLKSFIQKLQEEEDREVKK
LMRKYTVLRLMIRQRLEEIAETPATI

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FIGURE 5678

GTCTCAGCCGGTCGTCGCGACGTTTCGCCCCTCGCTCTGAGGCTCCTGAAGCCGAAACCAGCTAGACTTTTCCTCC
TCCCCGCTGCTGTAGCGGCGTTGTTGCCACTCCGCCACCATGTTTCGAGGCGCGCCTGGTCCAGGGCTCCATCC
TCAAGAAGGTGTTGGAGGCACTCAAGGACCTCATCAACGAGGCCTGCTGGGATATTAGCTCCAGCGGTGTAAACC
TGCAGAGCATGGACTCGTCCCACGTCTCTTTGGTGCAGCTCACCCTGCGGTCTGAGGGCTTCGACACCTACCGCT
GCGACCGCAACCTGGCCATGGGCGTGAACCTCACCAGTATGTCCAAAATACTAAAATGCGCCGGAATGAAGATA
TCATTACACTAAGGGCCGAAGATAACGCGGATACCTTGGCGCTAGTATTTGAAGCACCAAACCAGGAGAAAAGTTT
CAGACTATGAAATGAAGTTGATGGATTTAGATGTTGAACAACCTTGAATTCCAGAACAGGAGTACAGCTGTGTAG
TAAAGATGCCTTCTGGTGAATTTGCACGTATATGCCGAGATCTCAGCCATATTGGAGATGCTGTTGTAATTTCTT
GTGCAAAAGACGGAGTGAAATTTTCTGCAAGTGGAGAAGCTTGGAAATGGAAACATTAAATTGTCACAGACAAGTA
ATGTCGATAAAGAGGAGGAAGCTGTTACCATAGAGATGAATGAACCAGTTCAACTAACTTTTGCAGTACAGGTACC
TGAAGTTCTTTACAAAAGCCACTCCACTCTCTTCAACGGTGACACTCAGTATGTCTGCAGATGTACCCCTTGTTG
TAGAGTATAAAATTGCGGATATGGGACACTTAAATACTACTTGGCTCCCAAGATCGAGGATGAAGAAGGATCTT
AGGCATTCTTAAATTTCAAGAAAATAAACTAAGCTCTTTGAGAACTGCTTCTAAGATGCCAGCATATACTGAAG
TCTTTTCTGTACCAAATTTGTACCTCTAAGTACATATGTAGATATTGTTTTCTGTAAATAACCTATTTTTTCT
CTATTCTCTGCAATTTGTTTAAAGAATAAAGTCCAAAGTCAGATCTGGTCTAGTTAACCTAGAAGTATTTTTGTC
TCTTAGAAATACTTGTGATTTTTATAATACAAAAGGGTCTTGACTCTAAATGCAGTTTTAAGAATTGTTTTGAA
TTTAAATAAAGTTACTTGAATTC

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FIGURE 5679

CCAGGAGGCACGCTGGTTTTCCGGGGCCGCTCCATCGCGCCTTCCTCCTGCGCCTCGCTTCTCCGGTCCAGCCGC
CATCTTCCTTTCCGCACAGGGGCCGCCGAGCGGGGCC**ATC**CAGCCAACGCTGCTTCTCAGCCTCCTGGGAGCCGT
GGGGCTGGCGGCTGTCAATTCCATGCCAGTGGATAACAGGAACCACAATGAAGGAATGGTGACTCGCTGCATCAT
TGAGGTCTCTCAAATGCCTTGTCTGAAGTCCAGCGCTCCACCCATCACCCCTGAGTGCCGCCAAGTCTTGAAGAC
GAGTAGAAAAGACGTCAAAGACAAAGAGACAACTGAAAATGAAAACACAAAGTTTGAAGTAAGATTGTTAAGAGA
CCCAGCTGATGCCTCGGAAGCCCACGAGTCTCCAGCAGGGGAGAGGCAGGAGCCCCAGGGGAGGAGGACATCCA
AGGCCCAACAAAGGCAGACACAGAGAAATGGGCAGAGGGAGGCGGGCACAGCCGAGAGCGAGCGGATGAGCCCCA
GTGGAGCCTCTATCCCTCCGACAGCCAAGTCTCTGAAGAAGTGAAGACACGCCATTCTGAGAAGAGCCAGAGAGA
GGATGAGGAGGAGGAGGAGGGAGAGAACTATCAAAAAGGGGAGCGAGGGGAAGATAGCAGTGAAGAGAAACACCT
TGAAGAGCCAGGAGAGACACAAAACGCTTTTCTCAATGAAAGAAAGCAGGCTTCAGCTATAAAAAAGAGGAGTT
AGTGGCCAGATCGGAAACACATGCTGCCGGGCATTCTCAGGAGAAGACACATAGCCGAGAGAAGAGTAGCCAGGA
GAGTGGAGAGGAGGCAGGGAGCCAGGAGAATCACCCCCAGGAGTCTAAAGGCCAACCCCGAAGCCAGGAAGAATC
TGAGGAAGGTGAGGAAGATGCCACCTCTGAGGTGGACAAACGACGCACGAGGCCACAGACACCACCACGGGAGGAG
CAGGCCCCGACAGGTCTCTCAAGGAGGGAGTCTTCCCTCTGAGGAAAAGGGACACCCCCAGGAGGAATCTGAGGA
GTCAAACGTGAGCATGGCCAGTTTAGGGGAAAAGAGGGACCACCATTCAACCCACTACAGGGCTTCAGAGGAAGA
ACCTGAATATGGAGAAGAAATAAAGGGTTATCCAGGCGTCCAGGCCCTGAGGACCTGGAGTGGGAGCGCTATAG
GGGCAGAGGAAGTGAAGAATACAGGGCTCCAAGACCTCAGAGTGAGGAGAGTTGGGATGAGGAGGACAAGAGAAA
CTACCCAGCTTAGAGCTTGATAAGATGGCACATGGATATGGTGAAGAAAGTGAAGAGAGAGGGGCCCTTGAGCC
GGGAAAAGGGACGCCATCACAGAGGCAGGGGAGGGGAGCCACGTGCCATTTCATGTCTGACACCAGAGAAGAGAA
AAGGTTCTTGGGTGAAGGACACCACCGTGTCCAAGAAAACCAGATGGACAAGGCAAGGAGGCATCCACAAGGTGC
GTGAAAAGAGCTGGACAGAAATTATCTCAACTACGGTGAGGAAGGAGCCCCAGGGAAGTGGCAGCAGCAGGGAGA
CCTGCAGGACACTAAAGAAAACAGGGAGGAAGCTAGGTTTCAAGATAAACAATATAGCTCCCATCACACAGCTGA
AAAGAGGAAGAGATTAGGGGAAGTGTCAACCCATACTACGACCCTCTCCAGTGGAAGAGCAGCCATTTTGAAAG
AAGAGACAACATGAATGACAATTTTCTCGAGGGTGAGGAGGAAAATGAGCTGACCTTGAACGAGAAGAATTTCTT
CCCAGAATACAACATGACTGGTGGGAGAAAAAGCCCTTCTCTGAGGATGTGAAGTGGGGGTATGAGAAGAGAAA
CCTCGCCAGGGTCCCCAAGCTGGACCTGAAAAGGCAATATGACAGGGTGGCCCAACTGGACCAGCTCCTTCACTA
CAGGAAGAAGTCAGCTGAGTTTCCAGACTTCTATGATTCTGAGGAGCCGGTGAGCACCACAGGAGGCAGAAAA
TGAAAAGGACAGGGCTGACCAGACAGTCCTGACAGAGGACGAGAAAAAAGAACTCGAAAACCTGGCTGCAATGGA
TTTGGAATACAGAAGATAGCTGAGAAATTCAGCCAAAGGGCT**GAC**TGTCATTGGAGCGGTGGGCACTGTTAAG
AAGCAGCCATCACATGATCTGTTTTTACCACCTTCACTGAAAGACACCATTATATACCCAGGGCAGAAAGTAG
AACTTACTATTATTAATGTTTGACACAATTGGAATTGTCTTTAATTCTGTGAGAAATGCTATTGAAAATGTGA
ATTGCATGACTTGTAGCATATTCTTTCTGCAAAATAGACATATTAACATGCTTATGACAATGACTGTGCTACTG
TCTTTGGA AAAATGTTTGTCTCAGTTGGAAATAATAAAGATTACCTGAGACC

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FIGURE 5680

MQPTLLLSLLGAVGLAAVNSMPVDNRNHNEGMVTRCIIIEVLSNALSKSSAPPITPECRQVLKTSRKDVKDKETTE
NENTKFEVRLLRDPADASEAHESSSRGEAGAPGEEDIQGPTKADTEKWAEGGGHSRERADEPQWSLYPSDSQVSE
EVKTRHSEKSQREDEEEEEGENYQKGERGEDSSEEKHLIEPGETQNAFLNERKQASAIKKEELVARSETHAAGHS
QEKTHSREKSSQESGEEAGSQENHPQESKGQPRSQEESSEEGEEDATSEVDKRRTRPRHHHGRSRPDRSSQGGSLP
SEEKGHPQEESEESNVSMASLGEKRDHSTHYRASEEPEYGEIIGYPGVQAPEDLEWERYRGRGSEERYAPRP
QSEESWDEEDKRNYPSELDKMAHGYGEESEERGLEPGKGRHHRGRGGEPRAYFMSDTREEKRFLGEGHHRVQE
NQMDKARRHPQGAWKELDRNYLNYGEEGAPGKWQQQDLDQTKENREEARFQDKQYSSHTAEKRRLGELFNPY
YDPLQWKSSHERRDNMNDNFLEGEENEELTLNEKNFFPEYNYDWWEKKPFSEVDNNGYEKRNLARVPKLDLKRQ
YDRVAQLDQLLHYRKKSAEFPDFYDSEEPVSTHQEAENEKDRADQTVLTEDEKKELLENLAAMDLELQKIAEKFSQ
RG

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FIGURE 5681

ATGCTAGCCTTGCGCGTGGCGCGCGGCTCGTGGGGGGCCCTGCGCGGGCGCCGCTTGGGCTCCGGGAACGCGGCCG
AGTAAGCGACGCGCCTGCTGGGCCCTGCTGCCGCCCGTGCCCTGCTGCTTGGGCTGCCTGGCCGAACGCTGGAGG
CTGCGTCCGGCCGCTCTTGGCTTGCGGCTGCCCGGGATCGGCCAGCGGAACCACTGTTTCGGGCGCGGGGAAGGCG
GCTCCCAGGCCAGCGGCCGGAGCGGGCGCCGCTGCCGAAGCCCCGGGCGGCCAGTGGGGCCCCGGCGAGCACCCCC
AGCCTGTATGAAAACCCATGGACAATCCCGAATATGTTGTCAATGACGAGAATTGGCTTGGCCCCAGTTCTGGGC
TATTTGATTATTGAAGAAGATTTTAATATTGCACTAGGAGTTTTTGCTTTAGCTGGACTAACAGATTTGTTGGAT
GGATTTATTGCTCGAAACTGGGCCAATCAAAGATCAGCTTTGGGAAGTGCTCTTGATCCACTTGCTGATAAAATA
CTTATCAGTATCTTATATGTTAGCTTGACCTATGCAGATCTTATTCCAGTTCCACTTACTTACATGATCATTTTCG
AGAGATGTAATGTTGATTGCTGCTGTTTTTTATGTCAGATACCGAACTCTTCCAACACCACGAACACTTGCCAAG
TATTTCAATCCTTGCTATGCCACTGCTAGGTTAAAACCAACATTCATCAGCAAGGTGAATACAGCAGTCCAGTTA
ATCTTGGTGGCAGCTTCTTTGGCAGCTCCAGTTTTCAACTATGCTGACAGCATTTATCTTCAGATACTATGGTGT
TTTACAGCTTTCACCACAGCTGCATCAGCTTATAGTTACTATCATTATGGCCGGAAGACTGTTTCAGGTGATAAAA
GACTTGA

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FIGURE 5682

MLALRVARGSWGALRGAAWAPGTRPSKRRACWALLPPVPCCLGCLAERWRLRPAALGLRLPGIGQRNHCSGAGKA
APRPAAGAGAAAEAPGGQWGPASTPSLYENPWTIPNMLSMTRIGLAPVLGYLIIIEEDFNIALGVFALAGLTDLLD
GFIARNWANQRSALGSALDPLADKILISILYVSLTYADLIPVPLTYMIISRDVMLIAAVFYVRYRTLPTPRTLAK
YFNPCYATARLKPTFISKVNTAVQLILVAASLAAPVFNYADSIYLQILWCFTAFTTAASAYSYYHYGRKTVQVIK
D

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FIGURE 5683

GCCTGGCTCCGTTTCCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTCGTGCGCCTTCTACC
TCGCTGTTTCGGTTTTCTGGCTCCTCGGCCCTTTTCTCCCCTGTTGCAGCTGGGAGCGGACGAAGCGCGAAGCT
GGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAATCATACAATTTATATCAACA
ATATGAATGACAAAATTAAGGAAGAATTGAAGAGATCCCTATATGCCCTGTTTTCTCAGTTTGGTCATGTGG
TGGACATTGTGGCTTTAAAGACCATGAAGATGAGGGGGCAGGCCTTTGTCATATTTAAGGAAGTGGGCTCATCCA
CAAATGCCTTGAGACAGCTACAAGGATTTCCATTTTATGGTAAACCAATGCGAATACAGTATGCAAAAACAGATT
CGGATATAATATCAAAAATGCGTGGAACTTTTGCTGACAAAGAAAAGAAAAAGAAAAAGCCAAAACCTG
TGAACAGACTGCAACAACCACAAAAGCCTGGCCAGGGAAGTCCAAATTCAGCTAATACCCAAGGAAATT
CAACACCAAATCCTCAGGTCCCTGATTACCCTCCAACTATATTTTATTCCTTAATAACTTACCAGAAGAGACTA
ATGAGATGATGTTATCCATGCTGTTTAAATCAGTTCCCTGGCTTCAAGGAAGTACGTCTGGTACCAGGGAGGCATG
ACATTGCTTTTGTGAATTTGAAAATGATGGGCAGGCTGGAGCTGCCAGGGATGCTTTACAGGGATTTAAGATCA
CACCGTCCCATGCTATGAAGATCACCTATGCCAAGAAATTAACATTTGGGATAGTCGTCTTTAAAAGACTTGGTGT
TATTTACAGTGTTTGTGTTTATAACATTTGGCTGGGTCATTTTAATAGTTAGAGATGAGGAGGAGTAAAAGTGAA
ATTTTGTGAAGGACTTAAATTATCCAGTGTTTCTTTAGCCTTGGTGAAGTATGAAATACGAAGGCCTTAATTTT
GTACAATAAACTTTTATTTGTATTCTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5684

MDIRPNHTIYINNMNDKIKKEELKRSLYALFSQFGHVVDIVALKTMKMRGQAFVIFKELGSSTNALRQLQGFFFY
GKPMRIQYAKTDSDIISKMRGTFADKEKKKEKKKAKTVEQTATTTNKKPGQGTPNSANTQGNSTPNPQVPDYPPN
YILFLNNLPEETNEMMLSMLFNQFPGFKEVRLVPGRHDIAFVEFENDGQAGAARDALQGFKITPSHAMKITYAKK

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GAGAGGCGCCAGGCGGCGGCGGCGGCGGCCGCCAGCTTCTTCTTCTTCCTCGCACAGCCAGGCGGCCGCCCTGCTCGAT
CCCGCGTTCGCCATGGCCGCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGCCGAGCAAGCTGAGATCTGTAT
CTGTGGACCTGAATGTTGATCCCTCGCTTCAGATTGACATACCTGATGCGCTCAGTGAGAGAGACAAAGTCAAAGT
TTACAGTGCACACAAAGACCACACTGCCACGTTTCAGAGCCAGAGTTTTCTGTTACAAGGCAACATGAAGACT
TTGTGTGGCTACATGACACTCTTATTGAAACAACAGACTATGCTGGGCTTATTATTCCACCTGCTCCTACGAAG
CCGACTTTGATGGTCTCTGAGAGAAAGATGCAGAACTGGGAGAAGGTGAAGGGTCTATGACCAAAGAAGAATTTG
CCAAGATGAAACAAGAAGCTGGAAGCTGAGTATCTCGCTGTGTTTAAAGAAGACTGTGTCTCTCCATGAAGTCTTTC
TTCAGCGGCTTCTTCTCACCTGTTCTCAGTAAAGATCGCAACTTTCATGTTTTCTGGAATATGATCAGGATC
TAAGTGTTAGGCGGAAAAATACTAAAGAGATGTTTGGTGGCTTCTTCAAAAGTGTGGTGAAAAGTGTCTGATGAAG
TCCTTTTTACTGGAGTTAAGGAGGTAGATGACTTCTTTGAGCAAGAGAAGAACTTCCTTATTAAGTATTACAATA
GGATCAAAGATTCTTGTGTGAAAGCTGACAAAATGACCAGATCTCATAAAAATGTTGCCGATGACTATATCCACA
CCGAGCTGCTTACATAGCCTGGCTTTAGAAGAGCCACAGTCATCAAAAAGTACCTATTGAAGGTTGCTGAGC
TATTTGAAAACTAAGGAAAGTAGAGGGTCGAGTTTCATCAGATGAAGATTGAAGCTAACAGAGCTCCTCCGAT
ACTACATGCTCAACATTGAAGCTGCTAAGGATCTCTTATACAGACGCACCAAAGCCCTCATTGACTATGAGAACT
CAAACAAGCTCTGGATAAGGCCCGGTTAAAGAGCAAAGACGTCAAGTTGGCTGAGGCACACCAGCAGGAGTGCT
GCCAGAAATTTGAACAACCTTTCCGAATCTGCAAAAGAAGAACTGATAAATTTCAAACGGAAGAGAGTGGCAGCAT
TTAGAAAGAATCTAATTGAAATGTCTGAACTGGAAATAAAACATGCCAGGAACAATGTCTCCCTTTTGCAGAGCT
GTATTGACTTGTTCAAGAATAACTTGATATGCCTTCACCTCAGAAGAAAAAGAAATGAATGTGAAAGAAAGCCAAGCA
TCACTTGCACTTAAATCATTACCACGGAAGATATATTAGCTTCAACTTTAGTTTAAAATTATGTGAATAAATATT
TTGATTTCTACAAATCTTAACATTTAACCATGTTGGTTTAAAAATATTATTGCTTGCTACTTGGACATAACTAAT
TTTTCTTGTCATTTAATACCTCTGGGCAGAATCCAAATACTGGGTTCCTCCGTAAGTTCGCTTTTAGTTACTAA
GAAAGGTGTAGGACACATTAGCCTTCTGGAACAAGTAGAAGCCATCACCTGGCCCATGTCCCTACAAACCCAT
GATTGTCAGGGAGGTGCCAGTTACAGCAGGTGATTACAGCTACTTGAGGTGCGGTAACAGACCTTCCATTCTCTACT
GAAGGTGGGGTTTGTGTTTTTGTGTTTTGCCCTGTTACTCCACTGGTAGTCATCTGGTGTGTTGTACTATAACAACAG
CAAGAAAAATCTCATTTATCTTTATATACTCTTTGCACCTCCTTTTTTTAGTCGAGATATAAATATTTGAGGGGAG
AGATAATCTACAGGTATATATGGAACAATAATGTGGTCTGCTTTATAAGATGGCCAGATCTACATTAGGAAA
AGTATAAGCCCCCTCCCTAATAGGCCGCTAGGGGGTGAGGGCGGTGTGTTGTATGTCCTTTGGGTGTTTGTTTTTT
ATAAAGCATATAATAAAATAATCGTGCTACT

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FIGURE 5686

MAAVPELLQQQEEDRSKLRVSVDLNVDP SLQIDIPDALSERDKVKFTVHTKTTLPTFQSPEFSVTRQHEDFVWL
HDTLIETTDYAGLIIPPAPT KPDFDGP REKMQKLGE GEGSMTKEEF AKMQELEAEYLAVFKKTVSSHEVFLQRL
SSHPVLSKDRNFHV FLEYDQDLSVRRKNTKEMFGGFFKS VVKSAD EVLFTGVKEVDDFFE QEKNFLINYYNRIKD
SCVKADKMTRSHKNVADDYIHTAACLHSLALEEPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRYMYL
NIEAAKDLLYRRTKALIDYENS NKALDKARLKS KDVKLA EAHQQECCQKFEQLSESAKEELINFKRKRVA AFRKN
LIEMSELEIKHARNNVSL LQSCIDLFKNN

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FIGURE 5687

GAGAGTGTCCGTTGCTTCCCGTCCGTGTGCGGGCCCTGCGGTTGGCGGCCTCCTCGTGGAGCGGAGCAAGGGTAG
GCCCCACGTGGCGTCTTTGCCCGGCTCCAAGATGGACGGCAGCGGGGACTGGGAGGCTGCTCTGGGGGAGCACGT
GGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGGAGGCCTCCTGCCGCCGTGCGGCAG
GGAGGCCGGCGGAGGCGGGGCGGTGGCCGCCCCGAGAGGCGCCCAGGCGGCGGCGGCGGCGGCCAGCTTCTTC
TTTCTCGCACAGCCAGGCGGGCCCTGCTCGAGTCCCGCGTCGCCATGGCCGCGGTTCCCGAGTTGCTGCAGCAG
CAGGAGGAGGACCGCAGCAAGGTGAGGTCTTCCAGCCTCAGACTCCTGGGCGGGCGGCCCTGCGAGCTCCGGGG
TCGCTGCATTCTTTCCCTTGCGCGTCCATAGGCCGTGGCTGCTCGCCGCCATCCCAGCGCGGGAAGCACCCGTG
AGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCCGGGGAATCCCTGTGGATGTCCCGGATTCTA
TTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGTTGCCGAGCGGACTTGGAGAGATGATC
TCTGGAGACCCCGGAATGTTCTTTTTTAAACTTTTCTCGGCTTCGTGGTGACCAGTAGGTGAACGTGAAATTGAC
TTAACATGCGACAGACCAGTTTGGTTTGTGCCCCCAAATACCCCTCCTTCCCCCACCTTTTACTGAGAAGACT
TTTTTGGGGGGGGGGCCCAACAACCTGGGAAATTGCATCAAGCGTCCGAACATGCTGCTTACAACTTTAGAAAC
GCAAAATGCGTTGTTGTGGGAGTTGTGTAATTTTAGTAGGTGCTCAAATACTTGCTGAACCTTGGTGTCTATTTT
TAAGTCTTGCCCATTTGATGTAACTGTCCCTAGGTACGTTGATCTTGAGGTCTAAAAGATTATTTATGCAATAA
ATTGAAATTCCTATAGCCAATTAAAGATT

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FIGURE 5688

CTTTCTCTAGACGCGTCTTGCTGGGAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCT
CCTCGTGGAGCGGAGCAAGGGTAGGCCCCACGTGGCGTCTTTGCCCGGCTCCAAGATGGACGGCAGCGGGGACTG
GGAGGCTGCTCTGGGGGAGCACGTGGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGG
AGGCCTCCTGCCGCCGTGCGGCAGGGAGGCCGGCGGAGGCGGGGCCGTGGCCGCCCCGAGAGGCGCCAGGCGG
CGGCGGCGGCGGCCAGCTTCTTTCTTCGACAGCCAGGCGGGCCCTGCTCGAGTCCCGCGTCGCCATGGCC
GCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGC
GGGAAGCACCCGTGAGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCCGGGGAATCCCTGTGGA
TGTCGCGGATTCTATTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGGTGCCGAGCGGAC
TT

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FIGURE 5689A

GAGGGGTCGAGCCTGGGCAGTACAGGCGGCGGTGCGCACTCTGCGGCGGCCTCTGCGCCTCGGGCGGGCGGGAGA
GAGAGGCCGCGGCCCGCCAGCGTGGGGATGTCTAGGAGCTCGAAGGTGGTGCTGGGCCCTCTCGGTGCTGCTGACGG
CGGCCACAGTGGCCGGCGGTACATGTGAAGCAGCAGTGGGACCAGCAGAGGCTTCGTGACGGAGTTATCAGAGACA
TTGAGAGGCAAATTCGGAAGAAAGAAAACATTTCGTCTTTTGGGAGAACAGATTATTTTGAAGTGAACAACTTGAAG
CAGAAAGAGAGAAGATGTTATTGGCAAAAGGATCTCAAAAATCATGACTTGAATGTGAAAATATCTGTTGGACAGA
CAACACGAGTTTGTGTGTGTGTGTGATGGAGAGTAGCTTAGTAGTATCTTCATCTTTTTTTTTTGGTCACTGTCC
TTTTAACTTGATCAAATAAAGGACAGTGGGTCATATAAGTTACTGCTTTCAGGGTCCCTTATATCTGAATAAAG
GAGTGTGGGCAGACACTTTTTTGAAGAGTCTGTCTGGGTGATCCTGGTAGAAGCCCCATTAGGGTCACTGTCCAG
TGCTTAGGGTTGTTACTGAGAAGCACTGCCGAGCTTGTGAGAAGGAAGGGATGGATAGTAGCATCCACCTGAGTA
GTCTGATCAGTCGGCATGATGACGAAGCCACGAGAATCGACCTCAGAAGGACTGGAGGAAGGTGAAGTGGAGG
GAGAGACGCTCCTGATCGTCGAATCCGAGGATCAGGCATCAGTGGACTTATCGCACGACCAGAGTGGGGATTCCC
TCAACAGTGATGAAGGAGACGTGTCTTGGATGGAGGAGCAGCTGTCTACTTCTGTGACAAGTGCCAAAAATGGA
TACCAGCCAGTCAGCTGAGGGAACAGCTCAGTTACCTTAAGGGTGATAATTTTTTTAGGGTTACTTGTTCGGATT
GCTCAGCAGATGGCAAGGAGCAGTATGAAAGGCTGAAGCTGACATGGCAGCAAGTCGTCAATGTTGGCAATGTACA
ACTTGTCTCTGGAAGGAAGTGGACGTCAAGGTTATTTTCAGGTGGAAAGAAGATATCTGTGCTTTTATTGAGAAAC
ATTGGACTTTTTTACTAGGGAATAGGAAAAAGACGTCTACCTGGTGAGCACCGTGGCAGGTTGCCCTCAGCGTGG
GAAGTCCCATGTACTTCCGTTTCAGGTGCTCAGGAATTTGGAGAGCCAGGATGGTGGAACTTGTTCATAACAAGC
CCCCAACGATGAACCTGAAGGAGAGAAGTTGTCTGCTCTACTTTGAAAATAAAAGCAGCCTCAAAACCAACTT
TAGATCCCATCATTACTGTTGAGGGACTTAGAAAAACGAGCAAGTCGGAATCCTGTGGAATCTGCCATGGAATTAA
AAGAGAAAAGGTCTCGAAGCTCAGGAAGCAAAAGACATTAGAAGAGCCCAGAAGGAGGCCGCTGGCTTTCTTGACA
GGAGCACATCTTCTACCCCTGTAAAATTCATAAGCCGAGGCCCGCAGGCCAGATGTGATTCTGGAAGAGGCGAAG
TGATTGACTTTTTCTCTTCTGAGCTCCTCTGACCGCACCCCGCTGACAAGCCCATCTCCTTCTCCTTCTCTGGATT
TCTCTGCCCTGGTACACCTGCCCTCTCATTCTGCCACACCTAGCTTGCTTTCAGAAGCAGATCTGATTCCAGATG
TGATGCCCCACAAGCCTTGTTTCATGATGACGATGAGATGGAAGGCGATGGAGTCATAGACCCAGGGATGGAGT
ACGTCCCACCCCTGCTGGGTCACTAGCTTCTGGGCCAGTGGTTGGGGTCAGAAAGAAGGTGAGAGGCCCTGAAC
AGATAAAGCAGGAGGTAGAGAGTGAGGAGGAAAAACCCGACAGGATGGATATTGACAGTGAAGACACAGATTCAA
ACACATCTTTGCAACAAGGGCTAGAGAAAAAGAGGAAGCCTCAGCTGGAGAAGGACACAAAGCCGAAAGAGCCCA
GGTATACTCCCGTGAGCATCTACGAGGAAAAAGCTGCTGCTCAAGAGGCTGGAAGCTTGTCCCGTGTGTTGCCA
TGACTCCGGAAGCTCGGAGACTGAAACGCAAACTGATTGTGAGACAAGCGAAAGGGATAGGGGATTACCACTTT
TTGACTTGGATCAAGTTGTTAATGCTGCTCTTTTGTAGTTGACGGGATTTATGGAGCCAAAGAAGGAGGAATTT
CCAGACTTCCAGCTGGACAAGCCACGTACAGAACCACCTGTGAGGACTTCAGAATCCTTGACCGATACAGACTT
CCTTGCCGTCCAGGAAGGGATTTGACACACAGACCACCAAGTTTTTGTATCGCTTGGTAGGATCAGAAGATATGG
CTGTGGACCAGAGTATTGTGAGCCCTTATACCTCTCGGATCTTGAAACCTTATATCAGGCGTGATTATGAAACAA
AGCCACCCAACTGCAGCTCCTGTACAGATTGCTTCCACCTGCACAGGAGCGACCCTCACTGGACGCCGGAGC
CCGACGCACCTCTCGATTACTGTTATGTGCGGCCAAATCACATCCCAACGATCAACTCCATGTGTGAGGAGTTTT
TTTGGCCTGGCATTGACCTGTCTGAGTGTCTGCAGTACCAGACTTCAGTGTGTTGTTCTTTATAAAAAAGTCA
TCATTGCCCTTTGGCTTCATGGTTCTGATGTGAAATACAATGAAGCTTACATTTTCTGTTCTGTTCCACCTG
AATGGAGAAGAGCAGGGATTGCAACTTTTATGATCTATCATCTGATTGAGACCTGCATGGGCAAGGACGTAACCC
TTCAGTCTCAGCAAGCAACCTGCTATGCTACTGTACCAGAAGTTTGGATTCAAGACTGAAGAATATGTATTAG
ATTTCTATGATAAAATATTACCCATTGGAGAGTACAGAGTGTAACACGCATTCTTTCTGAGGCTCCGGCGCTGAT
GCGAATACAGCTCACAGAGAAACGCATGTGCTATTGGAGAACAGGTCTTTGTGGAGATCTAAAGGCAGTGATTGA
TTTCACAGGGAGCTCTAATCTCTGTGATTACATGGTCCTTCAAACCTCCCAACCAAGTGAGAAAAAGCGGCATGCA
GTGAAATGAGCAGTGAGCAGCCCTTTAGCAAAATCGCCCTCCAGTCTTCTGGAGATGCCCTTCAGCCAGCATCC
CAGACTCCACAGTTATTTATGAATGATGTGCTGATTCTCCCTCCACCTGACAGTTTGTAAAGAGTGAAAGAGCATC
TAACCTGATGCTCTTGGAGAGAGATAACCTGTCTGTCTATAACTTAAAGGATGAGAAAATGTGGTGTAGCTATTAA
AGATTGATGAGTCCCAAAAGGCACTGTCTGGGATGATGAGAGATTATAAGGTGATTTTATAAAAGGAATCCAA
CCCTGTGCCCCGCCATTGATGTGTTGTGCTATTGAATCCAGGAGGATTTCTAGGGCACTGAAGTTTTGTGTTTCTT
TTGCTGACTTTGGTTACAGTCAGAAAAATAAACTAGATGTTTGTGTCTACATGTTCTACCTGTTGTACCTATTA

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FIGURE 5689B

GCATCTTCCTGCAGGGACTTGGGCCCATGGCCTGGGAGGTTGGTTTGGGATTGGGGTTGTTGGGCAGCCTGCCAT
TCACCTGGCCTATCCTGGCCCTTCTCATGCCCAAGACAGTTGTTTCACAGGAGTGGAAAGTGTGGGTGATGCAAGT
AGAACCCTCTAGATGTACCCTGTGTGGTCTGCAGGACTGGACTGTTTGCTGTGTTTGTGGATGTTGGCGATAGAC
TGTCAATTAGGTTGTTTGTGATCCAACAAGAACATTTCCAAAAGTATCTAGGTGTTCTCAAATAAAAAGCTTTCT
TTGCACAACCC

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FIGURE 5690

MDSSIHLSLISRHDEATRTSTSEGLEEGEVEGETLLIVESDQASVDLSHDQSGDSLNSDEGDVSWMEEQLSY
FCDKCQKWIPASQLREQLSYLKGDNFFRFTCSDCSADGKEQYERLKL TWQQVVMLAMYNLSLEGSGRQGYFRWKE
DICA FIEKHWTFL LGNRKKTSTWWSTVAGCLSVGSPMYFRSGAQEFGE PGWVKLVHNKPPTMKPEGEKLSASTLK
IKAASKPTLDP IITVEGLRKRASRNPVESAMELKEKRSRTQEAKDIRRAQKEAAGFLDRSTSSTPVKFI SRGRRP
DVILEKGEVIDFSSLSSSDRTP LTSPSPSPSLDFSAPGTPASHSATPSLLSEADLIPDVMPPQALFHDDDEMEGD
GVIDPGMEYVPPPAGSVASGPVVGVRKKVRGPEQIKQEVESEEEKPDRMDIDSED TDSNTSLQTRAREKRKPQLE
KDTKPKEPRYTPVSIYEEKLLLKRLEACP GAVAMTPEARRLKRKLIVRQAKRDRGLPLFDLDQVVNAALLLV DGI
YGAKEGGISRLPAGQATYRTTCQDFRILDYQTS LPSRKGF RHQTTKFLYRLVGSEDMAVDQSIVSPYTSRILKP
YIRRDYETKPPKLQLLSQIRSHLHRSDPHWTPEPDAPLDYCYVRPNHIPTINSMCQEFFWPGIDLSECLQYPDFS
VVVLYKKV IIAFGFMVPDVKYNEAYISFLFVHPEWRRAGIATFMIYHLIQTCMGKDVTLHVSASNPAMLLYQKFG
FKTEEYVLD FYDKYYPLESTECKHAFFLRRLRR

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FIGURE 5691

ATGATGAACACAAACGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAGGACTTTTAGAAAACATGGAGTTGTT
CCTTTGGTCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGAATGGGTACTGTTCAAAAA
GGAATGCCCCACAAGTGTACCATGGCAAAACTGGAAGAGTCTACAGTGTTACCCAGCATGCTGTTGGCATTGTT
AGCATTAAATGTGCATACTGAGCACATGAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAATGCATGAGGAAAATG
ATCAGAAAAAAAAAAGAAGCCAAAGAGAAAAGAAGCACACTTTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTG
GAAC TTATTCGTATGAATTCATGGCATATAA

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FIGURE 5692

MMNTNGKRRGTRYMFSTRFRKHGVVPLVTYMRIYKKGDIVDIKGMGTVQKGMPHKCYHGKTGRVYSVTQHAVGIV
SINVHTEHMKHKSRSRDSFLKCMRKMIRKKKEAKEKEAHFVRTNGKEPELLELIPYEFMA

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FIGURE 5693

TGGGCGCGCCTTCCGGGTGTACCTCCAGAGGGCGCCGGCTGCGGAGCCTCCCTCAGAGTCGCGAGGCCGGACGC
ATCGCGGCGCCGCCCACTCGCCCCAGCCGCCGCCATGAAGGCCGTGGTGCAGCGCGTCACCCGGGCCAGCGTCA
CAGTTGGAGGAGAGCAGATTAGTGCCATTGGAAGGGGCAIATGTGTGTTGCTGGGTATTTCCCTGGAGGATACGC
AGAAGGAACTGGAACACATGGTCCGAAAAGATTCTAAACCTGCGTGTATTTGAGGATGAGAGTGGGAAGCACTGGT
CGAAGAGTGTGATGGACAAACAGTACGAGATTCTGTGTGTGAGCCAGTTTACCCTCCAGTGTGTCTGGAAGGGAA
ACAAGCCTGATTTCCACCTAGCAATGCCCCACGGAGCAGGCAGAGGGCTTCTACAACAGCTTCTGGAGCAGCTGC
GTAAACATACAGGCCGGAGCTTATCAAAGATGGCAAGTTTGGGGCCTACATGCAGGTGCACATTGAGATGATG
GGCCTGTGACCATAGAGCTGGAATCGCCAGCTCCCCGGCACTGCTACCTCTGACCCAAAGCAGACGGATTCTCGCT
CTGTCTCCCAGGCTGGAGTGCAGTGGCGCGATCTCCGTTTATTGCAAGCTCCACCTCCCGGGTTTCATGCCATTCT
TCTGCCTAAGCCTCCCAAGTAGCTGGGACTATAGGCACGTGCCACCATGCCCGGCTAATTTTTTTGTATTTTTTAG
AGTAGAGACGGGGTTTTACCATGTTAGCCAGGATGGTCTCGATCTCTGCCCCTGGTGATCCACCCGCCTCGGCCCT
CCCAAAGTGCTGGGATTACAGGTGTGAACTACCGCGCCCCAGCCAAAGTTCAGTAGGTTTTTTAAATGTCTTTTTT
CTGCTCCGGGATAATGCAGGATTCCACACGGCATTTAGTTGTCAATTTCTGCTTAGTCTTCTCCAATCTGTGACAG
TTCTCAGCCTTTCTTTGTCTTTTGTGACATTGATACTTTTCAAGAGTACTAGTCTACTGTTTTGTAGAATGTTT
CTCACTTTGGGTTTTCTATGATTATATTGAGGTAATACATGTTGACAGGAATAGGAAATAGCACAGAAGTGATCT
TGTGCCCTTCATAGTGCATCCTACCAGGAGGTATGTGGTATTGATTGTCTTGTACCTGTGATACCAGCCTTAT
TACTTGGTTCAGGTGAAGTCTACCAGATACCTCCATGTTAGATGAAGTGCTAACCTCTTCCCTTGTCTGTCTCT
CTGGCTCATTACAGCAGACAGCTCTCTCTCAGCTTTGCAGGGAAGAAGCCAGCAGATGGCATTGACTCTGCTT
CTCTATCCCCCTTCTGCCACCGTGGTAGCAGAGCTACCCTTTCTGGGCTGAGTCCAGCCTCTCCCTGGGGCCAG
GACCAGCTACATAATTTGAGAGGCCAGGTGTAATAATGAAATGTGGGGCCCCCTGTGAAGGTGGGGCCTGTGTGACTGCTCGGCTG
TGGGTCTAGACTGACCTGGGCTTTGGAGCCCTTCCCTTCCACCTCCTCAGCAGCTTCTGGAAGCCTCTGTCTCTC
TTGTTGGTTCTGTCTGCCTCTCACAGTCATCCATCTTATCCATTGGGTTTTAAATATGCCCAAATGTCTCCAAT
TGAGAAATGCTTCCATTTCTCTCCCTTCTGCTCTGCCACAGTGTCTTGGGTCTGTAAAGGTTCTCACCGAGGGCC
CCAGTGACCTCACATTGCTTTATTTTCATGCCATTTTTCAGAACACTTTTCTTGCCACTGCTGCCACTTTTGCC
CCTGGAAATGGCTGGAGCCTTGTTTTCCAGGACGTCACTCTCTGGGTTTTTGTCTTGCCCTCTGGCTACTCCCT
CTGGTTTTATTTGATCATTATTTCCATAGTTTTTAGTTATTATTCTGCTTTAACTCTATTTGGAGAAAAATTTAG
TCTTTTTTTTCAATCTAAATATTTTTCCGGAAATGGTAGAATAGTACATTTGCCTTTAGAATCTTACCTTTCTT
TCAACCAGTACCCTCTTCTTGTTTAGGTCAAAGGGTACAAAGATGCAGTTATTTGGGTGAGTAAGTCTCAAGAT
CTAATGTACACCATAAGGAGTGCAGTATCATATTGTGCACTGGGAGTAGATTTAGGAATCTCAGCACACACAGA
ATAAAGGACGGTAACTGTGTGAGATGCTGGACATGTAATTTACTTGACTGTAGTAATCACTTCACTATGTGTATG
TAGATCAGAGCATCATGCTGTACACCTTATACAATAAATCCCTCTCCCCAAATCAAAAAAAAAAAAAAAAAA

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FIGURE 5694

MKAVVQRVTRASVTVGGEQISAIGRGICVLLGISLEDTQKELEHMVRKILNLRVFEDESGKHWSKSVMDKQYEIL
CVSQFTLQCVLKGNKPDFHLAMPTEQAEGFYNSFLEQLRKTYRPELIKDGKFGAYMQVHIQNDGPVTIELESPAP
GTATSDPKQTDSRSVSQAGVQWRDLRSLQAPPPGFMPFFCLSLPSSWDYRHVPPCPANFFVFF

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FIGURE 5695

CTCTCGGCTTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTTCTTCGGTCGTCCTGAATCCGGGTTTCATCCGACACC
AGCTGCCTCCACCATGCTGCCGAAGTTTCGACCCGAACGAGATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGA
AGTCGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTGATGACAT
TGCCAAGGCAATGGGTGACTGGAAGGGCCTGAGGATTACAGTGAACTAACCATTTCAGAACAGACAGGCCAGAT
TGAGGTGGTGCCCTTCTGCCCTCTGCCATGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGAAACAGAA
AAACATTAAACACAGTGGGAATATCACTTTTGATGAGATCGTCAACATTGCTCGACAGATGCGGCACCAATCCTT
AGCCAGAGAACTCTCTGGAACCACTAAAGAGATCCTGGGGACTGCCCAGTCTGTGGGCTGTAATGTTGATGGCCG
CCACCCTCATGACATCATAGATGACATCAACAGTGGTGCTGTAGAATGCCCAGCTAGTTAAGCACAAAGGAAAAT
ATTTCAATAAAGGATCATTGACAA

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FIGURE 5696

ATGAAAGTCGAGCTGTGCAGTTTCAGCGGATACAAGATCTACTCCGGACACAGGAGGCGCTACGCCAGGACCGAA
GGGAAGGTTTTCCGGTTTCTTAATTCAAAATGCGAAGGGATCAGAAACCTGAAGTTAGAAAAGGCTCAAAGAGAAC
AAGCTATCAGGGCTGCTAAGGAAGCAAAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAG
GCACCTACAAAGGCAGCACCTAAGCAAAAGACTGTGAAGGTTGTGAAAGTTTCAGCTCCCCAAGTTGGTGGAAAA
CGCTTAA

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FIGURE 5697

MKVELCSFSGYKIYSGHRRRYARTEGKVFRFLNSKCEGIRNLKLERLKENKLSGLLRKQKKAKQASKKTAMAAAK
APTKAAPKQKTVKVVKVSAPQVGGR

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FIGURE 5698

AAGTGCTGGTGCCCTCTGCCGCTGCTCCCGTCTCTTTGGTTACGCTCGTCAGCCGGTCGGCCGCCGCTCCAGCC
GTGTGCCGCTATGGGAGTCCCGGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGTCCATCATAGTCAACTGCGT
GGAAGAGAAGCCAAAAAGAATGCAATGGTGTAAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGA
GTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCATCCTGAAGACAAACCAGCACCAA
AAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACT
TCTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGGTTTCAGGGCATC
AAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCAAAAGGTGGCTTTCTTCC
TCCAGAAGAAAATAAAAGAAAGATTTGACAGCAACTGTATTACACCAGGAAGTGAATTCATGGACAATCTTGCTAA
ATGCCCTTCGCTATTACATAGCTGATCGTTTAAATAATGACCCTGGGTGGAAAAATTTGACAGTTATTTTATCTGA
TGCTAGTGCTCCTGGTGAAGGAGAACATAAAATCATGGATTACATTAGAAGGCAAAGAGCCAGCCTAACCATGA
CCCAAATACTCATCATTGTTTATGTGGAGCAGATGCTGATCTCATTATGCTTGGCCTTGCCACACATGAACCGAA
CTTTACCATTATTAGAGAAGAATTCAAACCAAACAAGCCCAAACCATGTGGTCTTTGTAATCAGTTTGACATGA
GGTCAAAGATTGTGAAGGTTTGCCAAGAGAAAAGAAGGGAAGCATGATGAACCTGCCGATAGTCTTCCTTGTGC
AGAAGGAGAGTTTATCTTCTTCCGCTTAATGTTCTTCGTGAGTATTGGAAAGAGAACTCACAAATGGCCAGCCT
ACCATTACATTTGATGTTGAGAGGAGCATTGATGACTGGGTTTTCATGTGCTTCTTTGTGGGAAATGACTTCCT
CCCTCATTTGCCATCGTTAGAGATTAGGGAAAATGCAATTGACCGTTTGGTTAACATATACAAAAATGTGGTACA
CAAACTGGGGGTTACCTTACAGAAAGTGGTTATGTCAATCTGCAAGAGTACAGATGATCATGTTAGCAGTTGG
TGAAGTTGAGGATAGCATTTTTAAAGAGAGAAAGGATGATGAGGACAGTTTTAGAAAGACGACAGAAAGAAAAAG
AAAGAGAATGAAGAGAGATCAACCAGCTTTCACTCCTAGTGGAATATTAACCTCCTCATGCCCTGGGTTCAAGAAA
TTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCAGAATAACTCTAGTCC
TTCGATATCTCCTAATACGAGTTTACATCTGATGGCTCCCCGTCTCCATTAGGAGGAATTAAGCGAAAAGCAGA
AGACAGTGACAGTGAACCTGAGCCAGAGGATAATGTGAGTTATGGGAAGCTGGCTGGAAGCAGCGGTACTACAA
GAACAAATTTGATGTGGATGCAGCTGATGAGAAATTCGTCGGAAGTTGTGCAGTCGTACGTTGAAGGACTTTG
CTGGGTTCTTAGATATTATTACCAGGGCTGTGCTTCTGGAAGTGGTATTATCCATTTTATTATGCACCATTTGC
TTCAGACTTTGAAGGCATTGCAGACATGCCATCTGATTTTGAGAAGGGTACGAAACCGTTTAAACCACTAGAAC
ACTTATGGGGGTATTTCCAGCTGCAAGTGGTAATTTTCTACCTCCATCATGGCGGAAGCTCATGAGTGATCTGA
TTCTAGTATAATTGACTTCTATCCTGAAGATTTTGCTATTGATTGTAATGGGAAGAAATATGCATGGCAAGGTGT
TGCTCTCTTGCCATTCTGTGATGAGCGAAGGCTACGAGCTGCCCTAGAAGAGGTATACCCAGACCTCACTCCAGA
AGAGACCAGAAGAAACAGCCTTGAGGTGATGTCTTATTTGTGGGGAACATCACCCACTCCATGACTTCATTTT
AGAGCTGTACAGACAGGTTCCACAGAGCCAGTGGAGGTACCCCTGAACATATGTCATGGGATTCAAGGAAAGTT
TTCTTTGGATGAAGAAGCCATTCTTCCAGATCAAATAGTATGTTCTCCTGTTCTATGTTAAGGGATCTGACACA
GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTTGCTGAAGATTACATTTTAAAGCTGTAATGCTTCC
AGGAGCAAGAAAGCCAGCAGCAGTACTGAAACCTAGTGACTGGGAAAAATCCAGCAATGGACGGCAGTGGAAGCC
TCAGCTTGGCTTTAACCGTGACCGGAGGCCTGTGCACCTGGATCAGGCAGCCTTCAGGACTTTGGGCCATGTGAT
GCCAAGAGGCTCAGGAACCTGGCATTACAGCAATGCTGCACCACCACCTGTGACTTACCAGGGAAACTTATACAG
GCCGCTTTTGAGAGGACAAGCCAGATTCCAAAACCTTATGTCAAATATGAGGCCCCAGGATTCCTGGCGAGGTCC
TCTTCCCTTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGGGCTGAACCTCTGCTCCCATGGAACCGGATGCT
GCAAAACCAGAATGCAGCCTTCCAGCCAAACCAGTACCAGATGCTAGCTGGGCTGGTGGGTATCCACCCAGACG
AGATGATCGTGGAGGGAGACAGGGATATCCAGAGAAGGAAGGAAATACCCTTTGCCACCACCTCAGGAAGATA
CAATTGGAATTAAAGCTTTTGTAAAGCTTTCCCAAATCCTTTCATCATTCTACAGTTTTATGCTATTTGTGAAAG
ATTTCTTTCTCAAGTAGTAGTTTTTAATAAACTACAGTACTTTGTGTATTTCTTTTAACTGTGTATATTTCTAC
TGATCTGATCTCACTGTTTATGTTGCTTTCCAAAGATGTATGTTGCATAATACAGTGGATCTGAATTTATTATTG
CTTATAAAACACATTTGATGGAATAGGAGTACTGGTTTTTCATAATGGTTAAAAATGAAACCAGCTGTGGATTTT
AAAACACAGTGTATTCTAGATCATCTAAGATCCATGCTGATTTTTATTGCACAAGAATTAGGTTTGAACCTCTTGA
GCTGGAACCTCAGCAAACCTAGAGTATATATTGTTTCAGTATTTCTTTGGAAACATTTTATTAATGTACTTGTCTTA
CAGAAATTTCTGAACCTTTAGTAAAAAAAATAAAGTTAAACTTTTAAACTCAAAAAAAAAAAAAAAAAA

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FIGURE 5699

MGVPAFFRWLSRKYPSSIIVNCVEEKPKECNGVKIPVDASKPNPNDVEFDNLYLDMNGIIHPCTHPEDKPAPKNED
EMMVAIFEYIDRLFISIVRPRRLLYMAIDGVAPRAKMNQQRSSRRFRASKEGMEAAVEKQRVREEILAKGGFLPPEE
IKERFDSNCITPGTEFMDNLAKCLRYIIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNT
HHCLCGADADLIMLGLATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGE
FIFLRLNLVREYLERELTMASLPFTFDVERSIDDWVFMCFVGNDFLPHLPSLEIRENAIDRLVNIYKNVVHKTG
GYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDSDSFRRRQKEKRKRMKRDQPAFTPSGILTPHALGSRNSPG
SQVASNPRQAAAYEMRMQNNSSPSISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYKKNKF
DVDAADEKFRRKVVSQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGIADMPDSFEKGTKPFKPLEQLMG
VFPAASGNFLPSSWRKLMSDPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYPDLTPETTR
RNSLGGDVLFFVGKHHPLHDFILELYQTGSTEPVEVPPELCHGIQKFSLDEEAILPDQIVCSPVPMRLDLTQNTV
VSINFKDPQFAEDYIFKAVMLPGARKPAAVLKPSDWEKSSNGRQWKPLGFNRDRRPVHLDQAAFRTLGHVMPRG
SGTGIYSNAAPPPVTYQGNLYRPLLRGQAQIPKLMSNMRPQDSWRGPPPLFQQQRFDRGVGAEP LLPWNRMLQTQ
NAAFQPNQYQMLAGPGGYPPRRDRGGRQGYPREGRKYPLPPPSGRYNWN

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FIGURE 5700

CCCGCCCACTTCCAACCTACCGCCTCCGGCCTGCCAGGGAGAGAGAGGGAGTGGAGCCCAGGGAGAGGGAGCGCG
AGAGAGGGAGGGAGGAGGGGACGGTGCTTTGGCTGACTTTTTTTTTAAAGAGGGTGGGGGTGGGGGTGATTGCT
GGTCGTTTGTGTGGCTGTAAATTTTAAACTGCCATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAGATGG
AAGGGCACGAGCCGTCCGACTGGAGCAGCTACTATGCAGAGCCCGAGGGCTACTCCTCCGTGAGCAACATGAACG
CCGGCCTGGGGATGAACGGCATGAACACGTACATGAGCATGTGGCGGGCCGCCATGGGCAGCGGCTCGGGCAACA
TGAGCGCGGGCTCCATGAACATGTGCTCGTACGTGGGCGCTGGCATGAGCCCGTCCCTGGCGGGGATGTCCCCCG
GCGCGGGCGCCATGGCGGGCATGGCGGGCTCGGCCGGGGCGGGCCGGCGTGGCGGGCATGGGGCCGCACTTGAGTC
CCAGCCTGAGCCCGCTCGGGGGGCGAGCGGGCCGGGGCCATGGGCGGCCTGGCCCCCTACGCCAACATGAACTCCA
TGAGCCCCATGTACGGGCGAGCGGGCCTGAGCCGCGCCCGCGACCCCAAGACCTACAGGCGCAGCTACACGCACG
CAAAGCCGCCCTACTCGTACATCTCGCTCATCACCATGGCCATCCAGCAGAGCCCCAACAGATGCTGACGCTGA
GCGAGATCTACAGTGGATCATGGACCTCTTCCCTTCTACCGGCAGAACCAGCAGCGCTGGCAGAACTCCATCC
GCCACTCGCTCTCCTTCAACGACTGTTTCTGAAGGTGCCCGCTCGCCCGACAAGCCCGGCAAGGGCTCCTTCT
GGACCCTGCACCCTGACTCGGGCAACATGTTTCGAGAACGGCTGCTACCTGCGCCGCCAGAAGCGCTTCAAGTGCG
AGAAGCAGCTGGCGCTGAAGGAGGCCGCGAGGCGCGCGGCGAGCGGCAAGAAGCGGCCGCCGGAGCCAGGCCT
CACAGGCTCAACTCGGGGAGGCCGCCGGGGCGGCCTCCGAGACTCCGGCGGGCACCGAGTCGCCTCACTCGAGCG
CCTCCCCGTGCCAGGAGCACAAAGCGAGGGGGCCTGGGAGAGCTGAAGGGGACGCCGGCTGCGGCGCTGAGCCCCC
CAGAGCCGGCGCCCTCTCCCGGCGAGCAGCAGCAGGCGCGGGCCACCTGCTGGGCCCCGCCACCACCCGGGCC
TGCCGCTGAGGCCCCACCTGAAGCCGGAACACCACTACGCCTTCAACCACCCGTTCTCCATCAACAACCTCATGT
CCTCGGAGCAGCAGCACCACACAGCCACCACCACCAACCCCAAAAATGGACCTCAAGGCCTACGAACAGG
TGATGCACTACCCCGGCTACGGTTCCCCCATGCCTGGCAGCTTGGCCATGGGCCCCGGTCACGAACAAAACGGGCC
TGGACGCTCGCCCCCTGGCCGAGATACCTCCTACTACCAGGGGTGTACTCCCGGCCATTATGAACTCCTCTT
AAGAAGACGACGGCTTCAGGCCCGGCTAACTCTGGCACCCCGGATCGAGGACAAGTGAGAGAGCAAGTGGGGGTC
GAGACTTTGGGGAGACGGTGTTCAGAGACGCAAGGGAGAAGAAATCCATAACACCCCCACCCCAACACCCCAA
GACAGCAGTCTTCTTACCCGCTGCAGCGTTCCGTCCCAAACAGAGGGCCACACAGATACCCACGTTCTATAT
AAGGAGGAAAACGGGAAAGAATATAAAGTTAAAAAAAAGCCTCCGGTTTCCACTACTGTGTAGACTCCTGCTTCT
TCAAGCACCTGCAGATTCTGATTTTTTTGTTGTTGTTGTTCTCCTCCATTGCTGTTGTTGCAGGGAAGTCTTACT
TAAAAAATAAATAATTTTGTGAGTGACTCGGTGTAAACCATGTAGTTTAAACAGAACCAGAGGGTTGTACTA
TTGTTTAAAAACAGGAAAAAATAATGTAAGGGTCTGTTGTAAATGACCAAG

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FIGURE 5701

TCGCGTTCTGGGCCCCGGAGTCCGAGACAGGCGGGGACCCCGGCAGCTCCCGGTGCTATCTCTGAGCGGGTTCCG
AGCCCCACTTCCGGGCGGTCAGAAATTAGCCTCAGAGCGCCGAGCAACGACGCGCCGGGGACCTCCCGCCCATGAG
GCCGGAAGGGGCGGGGAGAACGCTGCGGAATGGTCCCTGGGCGCAACGTCATTTCCGCGTACGGGGGAGGGCGGG
CCTGGAGTCTGAGCCGGCGCCGCTCAGTGTGAGGTGGTTTTCTGCGGGTGAGGCTGGCGCCCGTACCATGAGCGAG
GCGGACGGGCTGCGACAGCGCCGCCCCCTGCGGCCGCGAGGTCGTACAGACGATGATGGCCAGGCCCCGGAGGCT
AAGGACGGCAGCTCCTTTAGCGGCAGAGTTTTCCGAGTGACCTTCTTGATGCTGGCTGTTTTCTCTACCGTTCCC
CTGCTTGGAGCCATGATGCTGCTGGAATCTCCTATAGATCCACAGCCTCTCAGCTTCAAAGAACCCCCGCTCTTG
CTTGGTGTCTGCAATCAAATACGAAGCTGCGACAGGCAGAAAGGCTGTTTGAAAATCAACTTGTTGGACCGGAG
TCCATAGCACATATTGGGGATGTGATGTTTACTGGGACAGCAGATGGCCGGGTCTGAAAACCTGAAAATGGTGAA
ATAGAGACCATTGCCCGGTTTTGGTTGCGGGCCCTTGCAAACCCGAGATGATGAGCCTGTGTGTGGGAGACCCCTG
GGTATCCGTGCAGGGCCCAATGGGACTCTCTTTGTGGCCGATGCATACAAGGGACTATTTGAAGTAAATCCCTGG
AAACGTGAAGTGAAACTGCTGCTGTCTCCGAGACACCCATTGAGGGGAAGAACATGTCTTTGTGAATGATCTT
ACAGTCACTCAGGATGGGAGGAAGATTTATTTACCGATTCTAGCAGCAAATGGCAAAGACGAGACTACCTGCTT
CTGGTGATGGAGGGCACAGATGACGGGCGCCTGCTGGAGTATGATACTGTGACCAGGGAAGTAAAAAGTTTTATTG
GACCAGCTGCGGTTCCCGAATGGAGTCCAGCTGTCTCCTGCAGAAGACTTTGTCTGGTGGCAGAAACAACCATG
GCCAGGATACGAAGAGTCTACGTTTCTGGCCTGATGAAGGGCGGGGCTGATCTGTTGTGGAGAACATGCCTGGA
TTTCCAGACAACATCCGGCCCAGCAGCTCTGGGGGGTACTGGGTGGGCATGTGACCATCCGCCCTAACCCCTGGG
TTTTCCATGCTGGATTTCTTATCTGAGAGACCCTGGATTAAAGGATGATTTTTAAGCTCTTTAGTCAAGAGACG
GTGATGAAGTTTGTGCCGCGGTACAGCCTCGTCCTAGAACTCAGCGACAGCGGTGCCTTCCGGAGAAGCCTGCAT
GATCCCGATGGGCTGGTGGCCACCTACATCAGCGAGGTGCACGAACACGATGGGCACCTGTACCTGGGCTCTTTC
AGGTCCCCCTTCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCCCTCCCAGATAGCTGCCCTGCCACGCAGGCC
AGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGACACAGTCGTGGTTCAAGTGTCACAT
GCACCTGTTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTCATTCTCGAGGATGCCCGGGCCCCACCTGGGCTT
GTCTTCTGTTTAGAGGGAAGTGTAACATATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAA
ACAAAACAAAACCTTTCTAAGTACAGTCATTCTCTAGGATTTGGGAAGCTCCTTGCACTTGGAAACAGGGCTCAGGT
GGGTGGAGCAGTAAGGCACTACCCAGAGAGCTTGCTGCTGCGGCCCTGTCCTGCGGCCCTCAAAGTTCTTCTTTAC
TATATATAACGTGCGGTCATACCTTTCTTCGTTGTGGTGGGGATGGAAGAGCAGAGGGAGCATGGCCCAGGGGTG
TTGAGGCCAGCGGTGAGAGCCGTGTTAGCCAAGACATGGAACGTGTGTTCTCAAGGGTTATGTGGGGCGTGGGCTC
TCCATAGTGTGTATGAAAAGCTTGTTGACTCTAGCGGCTCAGAGAGGACTTTGCTGGGTTTCTTCTGTGAATAT
CTCCGTGCTGACCATGCTGGAATTGGATGATTCTGCAATTCGGGACCTACTGCAGGGGTCCGTTTAGTAACGTCT
TGCTGTGATCTTTGTTCTTGACCTCTAGACCCCAAGATGTGAACAGTGCACGTGTTAATGTCATCTTTGCTCAT
GTGTTATAAGCCCCAAGTTGCTGTATATTTTACAAGTATGTCTACACACTGGTCATGATTTTGATAATAAATAA
CGATAAATCG

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FIGURE 5702

MSEADGLRQRRPLRPQVVTTDDGQAPEAKDGSSFSGRVFRVTFMLAVSLTVPLLGAMMLESPIDPQPLSFKEP
P L L L G V L H P N T K L R Q A E R L F E N Q L V G P E S I A H I G D V M F T G T A D G R V V K L E N G E I E T I A R F G S G P C K T R D D E P V C G
R P L G I R A G P N G T L F V A D A Y K G L F E V N P W K R E V K L L L S S E T P I E G K N M S F V N D L T V T Q D G R K I Y F T D S S S K W Q R R D
Y L L L V M E G T D D G R L L E Y D T V T R E V K V L L D Q L R F P N G V Q L S P A E D F V L V A E T T M A R I R R V Y V S G L M K G G A D L F V E N
M P G F P D N I R P S S S G G Y W V G M S T I R P N P G F S M L D F L S E R P W I K R M I F K L F S Q E T V M K F V P R Y S L V L E L S D S G A F R R
S L H D P D G L V A T Y I S E V H E H D G H L Y L G S F R S P F L C R L S L Q A V

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FIGURE 5703

GTGGGGTTCGTATCCCGCGGGTGGAGGCCGGGGTGGCGCCGGCCGGGGCGGGGAGCCCAAAAGACCGGCTGCCGC
CTGCTCCCCGGAAGGGCACTCGTCTCCGTGGGTGTGGCGGAGCGCGCGGTGCATGGAATGGGCTATGTGAATG

AAAAAGGTATCCGTTATGAAACTTCCAGAAAAACGAGCTACATTTTTTCAGCAGCCGCAGCACGGTCCCTTGCAA
ACAAGGATGAGAAAAATATCCAACCACGGGAGCCTGCGGGTGGCGAAGGTGGCATACCCCCTGGGGCTGTGTGTG
GGCGTGTTCATCTATGTTGCCATACATCAAGTGGCACCGGGGCCACCGCCACCCAGGCCTTCTTCAGCATCACCAGG
GCAGCCCCGGGGCCCGGTGGGGTCAGCAGGCCACAGCCCCCTGGGGACAGCTGCAGACGGGCACGAGGTCTTC
TACGGGATCATGTTTGATGCAGGAAGCACTGGCACCCGAGTACACGTCTTCCAGTTACCCCGGCCCCCAGAGAA
ACTCCCACGTTAACCACGAAACCTTCAAAGCAGTGAAGCCAGGTCTTTCTGCCTATGCTGATGATGTTGAAAAG
AGCGCTCAGGGAATCCGGGAACACTACTGGATGTTGCTAAACAGGACATTCCGTTTCGACTTCTGGAAGGCCACCCCT
CTGGTCCCTCAAGGCCACAGCTGGCTTACGCCTGTTACCTGGAGAAAAGGCCAGAAAGTTACTGCAGAAAGTGAAA
GAAGTATTTAAAGCATCGCCTTTCTTGTAGGGGATGACTGTGTTTCCATCATGAACGGAACAGATGAAGGCGTT
TCGGCGTGGATCACCATCAACTTCTTGACAGGCAGCTTGAAAACCTCAGGAGGGAGCAGCGTGGGCATGCTGGAC
TTGGGCGGAGGATCCACTCAGATCGCCTTCTTGCCACGCGTGGAGGGCACCCCTGCAGGCCTCCCCACCCGGCTAC
CTGACGGCACTGCGGATGTTTAAACAGGACCTACAAGCTCTATTCTACAGCTACCTCGGGCTCGGGCTGATGTCTG
GCACGCTGGCGATCCTGGGCGGCGTGGAGGGGCAGCCTGCTAAGGATGGAAGGAGTTGGTCAGCCCTTGCTTG
TCTCCAGTTTCAAAGGAGAGTGGGAACACGCAGAAGTCACGTACAGGGTTTCAGGGCAGAAAGCAGCGGCAAGC
CTGCACGAGCTGTGTGCTGCCAGAGTGTGAGAGTCTTCAAACAGAGTGCACAGGACGGAGGAAGTGAAGCAT
GTGGACTTCTATGCTTTCTCCTACTATTACGACCTTGACAGCTGGTGTGGGCTCATAGATGCGGAGAAGGGAGGC
AGCCTGGTGGTGGGGGACTTCGAGATCGCAGCCAAGTACGTGTGTGCGACCCCTGGAGACACAGCCGAGAGCAGC
CCCTTCTCATGATGGACCTCACCTACGTGACCTGCTACTCCAGGAGTTCCGGCTTTCCAGGAGCAAAAGTGCTG
AAGCTCACTCGGAAAATTGACAATGTTGAGACCAGCTGGGCTCTGGGGGCCATTTTTTCATTACATCGACTCCCTG
AACAGACAGAAGAGTCCAGCCTCATAGTGGCCGAGCCATCCCTGTCCCCGTGAGCAGTGTCTGTGTGTCTGCATA
AACCCCTCCTGTCTGACGTGACTTTCATCCTGAGGAGCCACAGCACAGGCCGTGCTGGCACTTTCTGCACACTGG
CTCTGGGACTTGAGAAAGGCTGGTGTGCTGCCCTGGCATCAGCCTCTTCCAGTCACATCTGGCCAGAGGGCTGTCT
GGACCTGGGCCCCGTGCTCAATGCCACCTGTCTGCTGGGCTCCAAGTGGGCAGGACCAGGACAGAACACAGGCAC
ACACTGAGGGGGCAGTGTGGCTCCCTGCCCTGTCCCATCCCCATGCCCGTCCGCGGGGCTGTGGCTGCTGTGTG
CATGTCCCTGCGATGGGAGTCTTGTCTCCAGCCTGTGATTTCTCCAGGGCAGAGCTCCCTTCTGCAAG
AGTCTGGGAGGCGGTGCAGGCTGTCTGGCTGCTCTGGGGAAGCCGAGGGACAGCCATAACACCCCCGGGACAGT
AGGTCTGGGCGGCACCACTGGGAACCTGGAAGTGTGAGTGTGTTTGTCTTCTTGGGTATGAATGTGTGAGTTCA
CCCAGAGGCCTGCTCTCCTCACACATTGTGTGGTTTGGGGTTAATGATGGAGGGAGACACCTCTTCATAGACGGC
AGGTGCCCCACCTTTAGGGAGTCTCCAGCATGGGCGGATGCCGGCATGAGCTGCTGTAAACTATTTGTGGCTG
TGCTGCTTGAGTGACGTCTGTGCTGTGGGTGCCAAGTGTCTGTGTAGAACTGTGTTCTGAGCCCCCTTTCT
GGACACCAACTGTGTCTGTGAATGTATCGCTACTGTGAGCTGTTCCCGCTAGCCAGGGCCATGTCTTAGGTGC
AGCTGTGCCACGGGTGAGTGTGAGCCACAGTCCCAGAACCAAGCTCTCGGTGTCTCGGGCCACCATCCGCCCACCT
CGGGCTGACCCACCTCCTCCATGGACAGTGTGAGCCCCGGGCGTGCATCCTGCTCAGTGTGGCGTCAGTGTCTG
GGGCTGAGCCCCCTTGAAGTGTCTCAGTGAATGTACAGTGCCCGGCACGAGCTGAACCTCATGTGTTCCACTCCCA
ATAAAAGGTTGACAGGGGCTTCTCCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5704

MKKGIRYETSRKTSYIFQQPQHGPWQTRMRKISNHGSLRVAKVAYPLGLCVGVFIYVAYIKWHRATATQAFFSIT
RAAPGARWGQQAHSPLGTAADGHEVFYIGIMFDAGSTGTRVHVFQFTRPPRETPTLTHETFKAVKPGLSAYADDVE
KSAQGIRELLDVAKQDIPFD FWKATPLVLKATAGLRLLPGEKAQKLLQKVKEVFKASPFLVGDDCVSIMNGTDEG
VSAWITINFLTGSLKTPGGSSVGMLDLGGGSTQIAFLPRVEGTLQASPPGYLTALRMFNRTYKLYSYSYLGGLM
SARLAILGGVEGQPAKDGKELVSPCLSPSFKGEWEHAEVTYRVSGQAAAASLHELCAARVSEVLQNRVHRTEEVK
HVD FYAFSYYYDLAAGVGLIDAEKGGSLVVGDFEIAAKYVCRTLETQPQSSPFSCMDLTYVSLLLQEF GFPRSKV
LKLTRKIDNVETSWALGAIFHYIDSLNRQKSPAS

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FIGURE 5705A

GAGCAGCTGCACCATCCCGGCGTTGCGGTGTGCCGCCGCTTTCTCCTCCATCTCTTTTCTCCGCTCCGCCGG
CGCGATGGCGAAGCCGCTGACGGACAGCGAGAAGCGGAAGCAGATCAGCGTGC CGCGGCTGGCGGGGCTAGGCGA
CGTGGCCGAGGTGCGGAAGAGCTTCAACCGGCACTTGCACTTACGCTGGTCAAGGACCGCAATGTGGCCACGCC
CCGCGACTACTTCTTCGCGCTGGCGCACACGGTGC CGCACACCTCGTGGGCCGCTGGATCCGCACGCAGCAGCA
CTACTACGAGCGCGACCCCAAGCGCATTTATTATCTTTCCCTGGAATTCTACATGGGTGCGACGCTGCAGAACAC
GATGGTGAACCTGGGCCCTTCAGAAATGCCTGCGATGAAGCCATCTATCAGTTGGGGTTAGACTTGGAGGAACCTGA
GGAGATAGAAGAAGATGCTGGCCTTGGGAATGGAGGCCTGGGGAGGCTGGCAGCGTGTTCCTTGACTCAATGGC
TACCTTGGGCCCTGGCAGCATACGGCTATGGAATCCGCTATGAATTTGGGATTTTAAACCAGAAGATTGTCAATGG
CTGGCAGGTAGAGGAGGCCGATGACTGGCTGCGCTACGGCAACCCCTGGGAGAAAGCGCGGCCCTGAGTATATGCT
TCCCGTGCACTTCTACGGACGCGTGGAGCACACCCCGACGGCGTGAAGTGGCTGGACACACAGGTGGTGTGGC
CATGCCCTACGACACCCAGTGCCCGGCTACAAGAACAACACCGTCAACACCATGCGGCTGTGGTCCGCCAAGGC
TCCCAACGACTTCAAGCTGCAGGACTTCAACGTGGGAGACTACATCGAGGCGGTCTGGACCGGAACCTGGCTGA
GAACATCTCCAGGGTCTGTATCCAAATGATAACTTCTTTGAGGGGAAGGAGCTGCGGCTGAAGCAGGAGTACTT
CGTGGTGGCCGCCACGCTCCAGGACATCATCCGCCGCTTCAAGTCTGTCAGTTCCGGCTGCCGGGACCCTGTGAG
AACCTGTTTCGAGACGTTCCCAGACAAGGTGGCCATCCAGCTGAACGACACCCACCCCGCCCTCTCCATCCCTGA
GCTCATGCGGATCCTGGTGGACGTGGAGAAGGTGGACTGGGACAAGGCCTGGGAAATCACGAAGAAGACCTGTGC
ATACCAACACACTGTGCTGCCTGAGGCCTTGGAGCGCTGGCCCGTGTCCATGTTTGAGAAGCTGCTGCCCGC
GCACCTGGAGATAATCTATGCCATCAACCAGCGGCACCTGGACCAGTGGCCGCGCTGTTCCCGGCGATGTGGA
CCGCTGCGCAGGATGTCTGTGATCGAGGAGGGGACTGCAAGCGGATCAACATGGCCACCTGTGTGTGATTGG
GTCCCATGCTGTCAATGGTGTGGCGAGGATCCACTCGGAGATCGTGAAACAGTCGGTCTTTAAGGATTTTTATGA
ACTGGAGCCAGAGAAGTTCAGAATAAGACCAATGGCATCACCCCGCCGGTGGCTGCTGTGTGCAACCCGGG
GCTGGCCGATACCATCGTGGAGAAAATTGGGGAGGAGTTCCTGACTGACCTGAGCCAGCTGAAGAAGCTGCTGCC
CTGGTCAGTGACGAGGTGTTTCATCAGGACGTGGCCAAGGTCAAACAGGAGAACAGCTCAAGTTCTCGGCCTT
CCTGGAGAGGAGTACAAGGTGAAGATCAACCCCTCCTCCATGTTTCGATGTGCATGTGAAGAGGATCCACGAGTA
CAAGCGGCAGCTGCTCAACTGCCTGCACGTGCTCACCTGTACAATCGAATCAAGAGAGACCCGGCCAAGGCTTT
TGTGCCCAGGACTGTTATGATTGGGGGCAAGGCAGCGCCCGTTACCACATGGCCAAGCTGATCATCAAGTTGGT
CACCTCCATCGCGCAGCTCGTCAATCATGACCCAGTTGTGGGTGACAGGTTGAAAGTGATCTTCTGGAGAACTA
CCGTGTGCTCTTGGCTGAGAAAGTGATCCCGGCCGTGATCTGTGCGCAGAGATCTCCACTGCAGGCACCGAGGC
CTCAGGCACAGGCAACATGAAGTTCATGCTCAACGGGGCCCTCACCATCGGCACCATGGACGGCGCCAACGTGGA
GATGGCCGAGGAGGCCGGGGCCGAGAACCTCTTCATCTTCGGCTGCGGGTGGAGGATGTGAGGCCTTGGACCG
GAAAGGGTACAATGCCAGGGAGTACTACGACCACCTGCCCGAGCTGAAGCAGGCCGTGGACCAGATCAGCAGTGG
CTTTTTTTCTCCCAAGGAGCCAGACTGCTTCAAGGACATCGTGAACATGCTGATGCACCATGACAGGTTCAAGGT
GTTTGCAGACTATGAAGCCTACATGCAGTGCCAGGCACAGGTGGACCAGCTGTACCGGAACCCCAAGGAGTGGAC
CAAGAAGGTATCAGGAACATCGCCTGCTCGGGCAAGTTCCTCAGTGACCGGACCATCAGCGAGTATGCACGGGA
GATCTGGGGTGTGGAGCCCTCCGACCTGCAGCTTCAGCACCTGCCCCACCCAGAGTGGGAGTCAGGTGGAGCCAC
CTGCTGGGCTCCCCAGAACTTTGCACACATCTTGCTATGTATTAGCCGATGTCTTTAGTGTGAGCCTCTGGAT
TCTGGGGTCTGGGCCAGTGGCCATAGTGAAGCCTGGGAATGAGTGTACTGCAGCATCTGGGCTGCCAGCCACAG
GGAAGGGCCAAGCCCCATGTAGCCCCAGTCATCTGCCAGCCCTGCCCTCTGTCTGGCTCTGCACCTGGTATATGGGTCTAGG
CCTCTAGGCATCGCCTTACAGCCCCCTGCCCTGCCCCCTGCTGCTGGCTCTGCACCTGGTATATGGGTCTAGG
ACCCAGATGGGGCTTTCCCTTTGTAGCCATCCAATGGGCATTGTGTGGGTGCTTGAACCCGGGATGACTGAGGG
GGACACTGGAGTGGGTGCTTGTGTCTGCTGTCTCAGAGGCCTTGGTCAGGATGAAGTTGGCTGCACAGCTTAGC
TTGGTTTTGCTTATTCAAAGAGAAAATAACTACACATGGAAATGAAACTAGCTGAAGCCTTTTCTGTTTTTAGC
AACTGAAATTTGACTTGGTCACTTTTGTGCTTGAGGAGGCCATTTTCTGCCTGGCAGGGGGCAGGTCTGTGCC
CTCCCGCTGACTCCTGCTGTGTCTGAGGTGCATTTCTGTTGTACACACAAGGGCCAGGCTCCATTCTCCCTCC
CTTTCCACAGTGCCACAGCCTCGTCTGGAAGGAGGACAGGGGTCCCGGAGGAACCCATTTGTGCTCTGCTTGG
ACAGCAGGCCTGGCACTGGGAGGTGGGGGTGAGCCCTCAGACCTTGGCCCTCCCAAGGCTGGCAACCTGCCCT
CCCATTGCCCAAGAGAGAGGGCAGGGAACAGGCTACTGTCTTCCCTGTGGAATTGCCGAGAAATCTAGCACCTT
GCATGCTGGATCTGGGCTGCGGGGAGGCTCTTTTCTCCCTGGCCTCCAGTGCCACCAGGAGGATCTGCGCACG

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FIGURE 5705B

GTGCACAGCCCACCAGAGCACTACAGCCTTTTATTGAGTGGGGCAAGTGCTGGGCTGTGGTCGTGCCCTGACAGC
ATCTTCCCCAGGCAGCGGCTCTGTGGAGGAGGCCATACTCCCCTAGTTGGCCACTGGGGCCACCACCTGACCAC
CACTGTGCCCCTCATTGTTACTGCCTTGTGAGATAAAAACTGATTAAACCTTTGTGGCTGTGGTTGGC

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FIGURE 5706

AGGCTACGGTTTCGCGCCAGCGGCCGGCGCTATGGGGCTGAGCCGCGTGCGGGCGGGTTTTCTTTGACTTGGACAAC
ACTCTCATCGACACGGCCGGGGCGAGCAGGAGAGGCATGTTGGAGGTGATAAACTCTTACAATCAAAATACCAT
TATAAAGAAGAGGCTGAAATCATCTGTGATAAAGTTCAAGTTAAACTCAGCAAGGAATGTTTTCATCCTTACAAT
ACATGCATTACTGATTTAAGGACTTCACATTGGGAAGAAGCAATCCAGGAAACAAAAGGTGGTGCAGCCAATAGA
AAATTGGCTGAAGAATGTTATTTTCTTTTGAAATCTACACGTTTACAGCATATGACACTAGCAGAAGACGTCAAA
GCCATGCTTACTGAACTTCGAAAGGAGGTCCGCCTACTTCTATTAAACGAATGGGGACAGACAGACCCAGAGGGAG
AAGATTGAGGCTTGTGCCTGTGAGTCTATTTTGACGCTGTTGTTGTAGGTGGAGAGCAGAGAGAGGAGAAACCA
GCACCGTCCATATTTTATTACTGCTGCAATCTTCTCGGAGTACAACCTGGGGACTGTGTGATGGTTCGGTGACACA
TTAGAAACCGACATCCAAGGAGGCCTCAATGCAGGATTGAAAGCAACAGTCTGGATCAATAAAAAATGGAATAGTG
CCACTGAAGTCTTCCCCAGTTCGCGATTACATGGTTTTCTTCTGTGCTAGAGTTACCTGCTCTCTTACAAAGTATA
GACTGCAAAGTCAGTATGTCCACTTAAAGCACATAAAAGGGCATGATTATGAATGTTAGAATCAATTTGCTGAGT
ATGAAATAAGAAAAGTTAGGGCACTCCACTTATGATAATCCAGCTCTAAGAAATAATTTTACTTATGATTTAATGG
CCAATATTTTGAAGGTCTTCCCAACCCTATTGCTTCTAAGTTGTAACAACCAACCATTGAGTGGTACTTATATCT
GAAAATTCAGATTGCATGAATTCAGGTGAGTAGTATAGCCCAGAAAATTTAAGGAAATATATTATTTGTTAGTCT
GTATCTGGAGCTTTTTTAAATATGTTATTAATCTTTTAGTATCTTGGCTGCATAATGCCAAGCAGGATTGCTTT
ACACATGGATGCACAAATGTAAGGTTTATCTTCTGGCTTAAAAATAGATATTTTAAAAAATAGATTTTCTAAAA
CACAGATTTATGAAAGCAAGTGAATCTGGTTAATATGAAATAAGTACTAAGTCACATGCAAAATCAAGGTATTATA
TAGTGAAATTATTTTGCATATTTTGAACATAAAACCATAGTTTTTGCCTACTTTGGATGTATACTTTCTTTTAT
GAACCTGATTTTCTGTATGACATTTTTTTTTTTTTCAGAGGGCAGGGAGCAATTTTCTATGGCATGTGACAGA
TTCTTCCAGTTAGAAAAAGCTGTTAAATCAACACATGGTGTCTCTTTACCGTGACATTTTCTCACCTGTGCACA
GTGAGCCGGTAGCTTCTTTTAGTCTTCACCTCTCAAGGAAATGTTTTTACTGTCTTTTCCCAGACACACAGTGG
GGTTGAGGGAGCTAGGCTGTTTTGCTAGAGATAATTGCAAGGCACGTGGCACTAAAAGTCATTTTCTTCTGTGG
ATCCATAAGAGGAACATTTCTTCAGTGTAGCCTAACATGCAGCCCCCAATCTGTTCTTTTTTTTTTTGAAATG
GGATCTCTGTGCGCCAGGTTGGAGTGCCATGGCACCATCTCGGCTCACTGCAACCTCTGCCTCTGAGCTCAAGT
GATCCTCCCACCTCAGCCTCCCAAGGGTGTGTGTGACTACAAGTACACACTACCACGCCAGCTAATGTGTGTTT
TTGTAGAGATGGGATTTTGCCATGTTGCCAGGCTGGTCTCGAATTCCTGGATTCAAGTGATCCTCCCACCTCAG
CCTCCTAAAGTCTTAGGATTATAGGCATGAGCCACTGTGCCTGGCCCCCTCATCTGATAGAAAATTAGATTTTGC
TATGAGCCATTTCTGAGGGCCAATTTAATACTCGTGTGACTCTTCTAGAGTTACCATCTGCCTTAAATTTCTT
CTGTTTTTACATTTCTTGAAATATATCATTGTTTTGCAAATTTCTATATCTAATTCAGGGTTTACCAGGAGCTT
AATAATTAATGGCTACATAGCAAGGCATCGTCTTGGAACCGGAGAATTTTCTCTAGACTATTAGGCTAGACAGTC
TCATGATTATACTAACCAAACCTGGAGTAAAGTGGTTGAAAAAAGAAAGTATAAAGGGGCTTATTAAAGTGGT
TAATAAATATGA

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FIGURE 5707

MGLSRVRAVFFDL DNTLIDTAGASRRGMLEVIKLLQSKYHYKEEAEIICDKVQVKLSKECFHPYNTCITDLRTSH
WEEAIQETKGGGAANRKLAEECYFLWKSTRLQHMTLAEDVKAMLTCLRKEVRLLLL TNGDRQTQREKIEACACQSY
FDAVVVGGEQREEKPAPSI FYYCCNLLGVQPGDCVMVGD TLETDIQGGLNAGLKATVWINKNGIVPLKSSPVPHY
MVSSVLELPALLQSIDCKVSMST

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FIGURE 5708

CTTCCTGTTGCCTTAGGGGAACGTGGCTTTCCCTGCAGAGCCGGTGTCTCCGCCTGCGTCCCTGCTGCAGCAACC
GGAGCTGGAGTCGGATCCCCGAACGCACCCCTCGCCATGGACTCGGCCCTCAGCGATCCGCATAACGGCAGTGCCGA
GGCAGGCGGCCCCACCAACAGCACTACGCGGCCCGCCTTCCACGCCCAGGGGCATCGCGCTGGCCTACGGCAGCCT
CCTGCTCATGGCGCTGCTGCCCCATCTTCTTCGGCGCCCTGCGCTCCGTACGCTGCGCCCCGCGGCAAGAATGCTTC
AGACATGCCTGAAACAATCACCAGCCGGGATGCCGCCCGCTTCCCCATCATCGCCAGCTGCACACTCTTGGGGCT
CTACCTCTTTTTCAAAAATATTCTCCCAGGAGTACATCAACCTCCTGCTGTCCATGTATTTCTTCGTGCTGGGAAT
CCTGGCCCTGTCCACACCATCAGCCCCCTTCATGAATAAGTTTTTCCAGCCAGCTTTCCAAATCGACAGTACCA
GCTGCTCTTCACACAGGGTTCTGGGGAAAACAAGGAAGAGATCATCAATTATGAATTTGACACCAAGGACCTGGT
GTGCTGGGCCTGAGCAGCATCGTTGGCGTCTGGTACCTGCTGAGGAAGCACTGGATTGCCAACCAACCTTTTGG
CCTGGCCTTCTCCCTTAATGGAGTAGAGCTCCTGCACCTCAACAATGTCAGCACTGGCTGCATCCTGCTGGGCGG
ACTCTTCATCTACGATGTCTTCTGGGTATTTGGCACCAATGTGATGGTGACAGTGGCCAAGTCCTTCGAGGCACC
AATAAAATTGGTGTTCCTCCAGGATCTGCTGGAGAAAGGCCTCGAAGCAAACAACCTTTGCCATGCTGGGACTTGG
AGATGTCGTCATTCCAGGGATCTTCATTGCCTTGCTGCTGCGCTTTGACATCAGCTTGAAGAAGAATACCCACAC
CTACTTCTACACCAGCTTTGCAGCCTACATCTTCGGCCTGGGCCTTACCATCTTCATCATGCACATCTTCAAGCA
TGCTCAGCCTGCCCTCCTATACCTGGTCCCCGCCTGCATCGGTTTTCTGTCCTGGTGGCGCTGGCCAAGGGAGA
AGTGACAGAGATGTTTACGCTACGAGTCCTCGGCGGAAATCCTGCCTCATACCCCGAGGCTCACCCACTTCCCCAC
AGTCTCGGGCTCCCCAGCCAGCCTGGCCGACTCCATGCAGCAGAAGCTAGCTGGCCCTCGCCGCCGGCGCCCGCA
GAATCCCAGCGCCATTTATGAGGAGTCAAATCCTAAGGATCCAGCGGCAGTGACAGAATCCAAAGAGGGGAACAGA
GGCATCAGCATCGAAGGGGCTGGAGAAGAAAGAGAAATGATGCAGCTGGTGCCCGAGCCTCTCAGGGCCAGACCA
GACAGATGGGGGCTGGGCCCACACAGGCGTGCACCGGTAGAGGGCACAGGAGGCCAAGGGCAGCTCCAGGACAGG
GCAGGGGGCAGCAGGATACCTCCAGCCAGGCCTCTGTGGCCTCTGTTTCCTTCTCCCTTTCTTGGCCCTCCTCTG
CTCCTCCCCACACCTTGAGGCAAAAGAAACCCCAAGCTTCCCCCTCCCCGGGAGCCAGGTGGGAAAAGTGGGT
GTGATTTTGTAGATTTGTATTGTGGACTGATTTTGCTCACATTAAAACTCATCCCATGGCCAGGGCGGGCCAC
TGTGCTCCTGGAA

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FIGURE 5709

MDSALSDPHNGSAEAGGPTNSTTRPPSTPEGIALAYGSLLL MALLPIFFGALRSVRCARGKNASDMPETITSRDA
ARFP I IASCTLLGLYLFFKIFSQEYINLLLSMYFFVLGILALSHTISPFMNKFFPASFPNRQYQLLFTQGSGENK
EEI INYEFDTKDLVCLGLSSI VGVYLLRKH WIANNLFGLAFSLNGVELLHLNNVSTGCILLGGLFIYDVFWVFG
TNVMVTVAKSFEAPIKLVFPQDLLEKGLEANNFAMLGLGDVVIPGIFIALLLRFDISLKKNTHTYFYTSFAAYIF
GLGLTIFIMHIFKHAQPALLYLVPACIGFPVLVALAKGEVTEMFSYEESNPKDPAAVTEKTEASASKGLEKK
EK

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FIGURE 5710

GTTCCATTTTCCGTATCTGCTTCGGGCTTCCACCTCATTTTTTTTCGCTTTGCCCATTTCTGTTTCAGCCAGTCGCC
AAGAATCATGAAAGTCGCCAGTGGCAGCACCGCCACCGCCGCCGCGGGCCCCAGCTGCGCGCTGAAGGCCGGCAA
GACAGCGAGCGGTGCGGGCGAGGTGGTGCGCTGTCTGTCTGAGCAGAGCGTGGCCATCTCGCGCTGCGCCGGGGG
CGCCGGGGCGCGCCTGCCTGCCCTGCTGGACGAGCAGCAGGTAAACGTGCTGCTCTACGACATGAACGGCTGTTA
CTCACGCCTCAAGGAGCTGGTGCCACCCCTGCCCCAGAACCGCAAGGTGAGCAAGGTGGAGATTCTCCAGCACGT
CATCGACTACATCAGGGACCTTCAGTTGGAGCTGAACTCGGAATCCGAAGTTGGAACCCCGGGGGCCGAGGGCT
GCCGGTCCGGGCTCCGCTCAGCACCCCTCAACGGCGAGATCAGCGCCCTGACGGCCGAGGTGAGATCCAGATCCGA
CCACTAGATCATCCTTATACCGACGGGGAAACGGAGGCCAGAGAGGGCGTGGGCGCTTGACCACCTTCCGTCCCA
TCCTTGCGGGTACCTGGCTATGCGGGGGTGCCCTAAGGAGCCTGGAAAAAGCGCTCCCCCGTCGTGCTTCCTGGGG
AAGGGGGCGTTTCGCTGCGCTCGGAGCGGCGTCCCTTCCAACCCGCCGGTCTCATTTCCTCGTTTTACAGGCG
GCATGCGTTTCCTGCGGACGATCGCATCTTGTTGTCGCTGAAGCGCCTCCCCAGGGACCGGCGGACCCAGCCATC
CAGGGGGCAAGAGGAATTACGTGCTCTGTGGGTCTCCCCAACGCGCCTCGCCGGATCTGAGGGAGAACAAGACC
GATCGGCGGCCACTGCGCCCTTAAGTGCATCCAGCCTGGGGCTGAGGCTGAGGCACTGGCGAGGAGAGGGCGCTC
CTCTCTGCACACCTACTAGTCACCAGAGACTTTAGGGGGTGGGATTCCACTCGTGTGTTTCTATTTTTTGAAAAG
CAGACATTTTAAAAAATGGTCACGTTTGGTGCTTCTCAGATTTCTGAGGAAATTGCTTTGTATTGTATATTACAA
TGATCACCGACTGAAAATATTGTTTTACAATAGTTCTGTGGGGCTGTTTTTTTGTATTAAACAAATAATTTAGA
TGGTG

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FIGURE 5711

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISRCAGGAGARLPALLDEQQVNVLLYDMNGCYSR
LKELVPTLPQNRKVSKVEILQHVIDYIRDLQLELNSESEVGTPGGRGLPVRAPLSTLNGEISALTAEAAACVPADD
RILCR

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FIGURE 5712

GAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAGTTCAGCACCAACCCTA
GTCCCTTCCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTT
TATGGCCTCAGCTGCCTCACTTCCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGT
TCAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCA
GGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGCCTGGCTCCTGAGGGGCATCTGCCCCTCCCCCA
ACCCCCACCCACACTTGTTCCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTG
TGTTTACTCAGTG

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FIGURE 5713

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCTGAGCTTCGCAATTCCTGTGTGCCTTCTGGGCTCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTGCCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGCTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCTCTACAAGCTTTCCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCCAGTGCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCCG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTGGGTACCGGCGG
GCATTGAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT
GAACTCTTCCGGGATGGGGTAAACTGGGGTCGCATTGTGGCCTTTTTCTCCTTCGGCGGGGCACTGTGCTGGAA
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGGGCTGGGATACTTTTGTGGAATCTATGGGAACAATGCAGCAGCCGAGAGC
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTTCTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA
CTCTTCAGTCGGAAATGACACAGACACTGACCATCCACTCTACCCCTCCACCCCTTCTCTGCTCCACCACATCCT
CCGTCCAGCCGCCATTGCCACCAGGAGAACCACTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGACAGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTG
GCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGG
GCAGGAGGGCCCTACCTGATTGGTGCAACCTTACCCCTTAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTT
GAAAGTTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGA
TCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCCTTTCCCTTCCATCCCTACCCCTAAGAGCCATTTAG
GGGCCACTTTTGACTAGGGATTAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA
CTGGCTAGAGTCCTCACTCCAGTCCAAATGTCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG
AGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAAGTTACAGCACCCACCTAGTCCC
TTCCCTCCCTGGCTCCCATGACCATACTGAGGGACCACTGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGG
CCTCAGCTGCCTCACTTCCCTACAAGAGCAGCCTGTGGCATCTTTGCCCTTGGGCTGCTCCTCATGGTGGGTTTACAGG
GACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG
GAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCCCTGCCTGGCCAGGC
AGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTC
AGGCCTCCCTCTCTCTTCTGCTCCACCTTGGCCTGTCTCATCCCCAGGGTCCCAGCCACCCCGGGCTCTCTGC
TGTACATATTTGAGACTAGTTTTTATTCTTGTGAAGATGATATACTATTTTGTAAAGCGTGTCTGTATTTATG
TGTGAGGAGCTGCTGGCTTGCAGTGCCTGACAGTGGAGAGTGGTGCCCGGAGATTGGACGGCCTGATGCTCC
CTCCCTGCCCCTGGTCCAGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCTCCCCCAACCCCC
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTGTGTTTA
CTCAGTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5714

MSQSNRELVVDFLSYKLSQKGYSSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGGWDTFVELYGNNAAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

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FIGURE 5715

GGGAGCAGCTAGGGCGCGGGTCTCCCTCCTCCCGAGTTTGGAAACGGCTGAAGTTCACCTTCCAGCCCCCTAGCGC
CGTTCGCGCCGCTAGGCCTGGCTTCTGAGGCGGTTGCGGTGCTCGGTGCGCCCTAGGCGGGGAGGGTGCGAGC
AGGGGCTTCGGGCCACGCTTCTCTTGGCGACAGGATTTTGTGTAAGTCCGTCCGGGAAACGGAGGAAAAAAGAG
TTGCGGGAGGCTGTGCGCTAATAACGGTTCTTGATACATATTTGCCAGACTTCAAGATTTAGAAAAAGGGGTGAA
AGAGAAGATTGCAACTTTGAGTCAGACCTGTAGGCCTGATAGACTGATTAAACCACAGAAGGTGACCTGCTGAGA
AAAGTGGTACAAATACTGGGAAAAACCTGCTCTTCTGCGTTAAGTGGGAGACAATGTCACAAGTTAAAAGCTCTT
ATTCTATGATGCCCCCTCGGATTTTCATCAATTTTTTCATCCTTGGATGATGAAGGAGATACTCAAAACATAGATT
CATGGTTTGAGGAGAAGGCCAATTTGGAGAATAAGTTACTGGGGAAGAATGGAACCTGGAGGGCTTTTTTCAGGGCA
AAACTCCTTTGAGAAAGGCTAATCTTCAGCAAGCTATTGTACACCTTTGAAACCAGTTGACAACACTTACTACA
AAGAGGCAGAAAAAGAAAAATCTTGTGGAACAATCCATTCCGTCAAATGCTTGTCTTCCCTGGAAGTTGAGGCAG
CCATATCAAGAAAACTCCAGCCAGCCTCAGAGAAGATCTCTTAGGCTTTCTGCTCAGAAGGATTTGGAACAGA
AAGAAAAGCATCATGTAAAAATGAAAGCCAAGAGATGTGCCACTCCTGTAATCATCGATGAAATTCTACCCCTCTA
AGAAAAATGAAAGTTTCTAACAACAAAAAGAAGCCAGAGGAAGAAGGCAGTGTCTCATCAAGATACTGCTGAAAAGA
ATGCATCTTCCCCAGAGAAAGCCAAGGGTAGACATACTGTGCCTTGTATGCCACCTGCAAAGCAGAAAGTTTCTAA
AAAGTACTGAGGAGCAAGAGCTGGAGAAGAGTATGAAAATGCAGCAAGAGGTGGTGAGATGCGGAAAAAGAATG
AAGAATTCAAGAACTTGCTCTGGCTGGAATAGGGCAACCTGTGAAGAAATCAGTGAGCCAGGTACCAAAATCAG
TTGACTTCCACTTCCGCACAGATGAGCGAATCAAACAACATCCTAAGAACCAGGAGGAATATAAGGAAGTGAACT
TTACATCTGAACTACGAAAGCATCCTTCATCTCCTGCCCGAGTGACTAAGGGATGTACCATTGTTAAGCCTTTCA
ACCTGTCCCAAGGAAAGAAAAGAACATTTGATGAAACAGTTTCTACATATGTGCCCTTGCACAGCAAGTTGAAG
ACTTCCATAAACGAACCCCTAACAGATATCATTTGAGGAGCAAGAAGGATGATATTAACCTGTTACCCTCCAAAT
CTTCTGTGACCAAGATTTGCAGAGACCCACAGACTCCTGTACTGCAAACCAAACACCGTGACGGGCTGTGACCT
GCAAAAGTACAGCAGAGCTGGAGGCTGAGGAGCTCGAGAAATTGCAACAATACAAATTCAAAGCACGTGAACTTG
ATCCCAGAATACTTGAAGGTGGGCCCCTCTTGCCCAAGAAACCACCTGTGAAACCAACCCAGCCTATTGGCT
TTGATTTGGAATTTGAGAAAAGAAATCCAGGAGCGAGAATCAAAGAAGAAAACAGAGGATGAACACTTTGAATTC
ATTCCAGACCTTGCCCTACTAAGATTTTGAAGATGTTGTGGGTGTTCTGAAAAGAAGGTACTTCCAATCACCG
TCCCCAAGTCACCAGCCTTTGCATTGAAGAACAGAATTCGAATGCCCAACAAAGAAGATGAGGAAGAGGACGAAC
CGGTAGTGATAAAAGCTCAACCTGTGCCACATTATGGGGTGCCTTTTAAGCCCCAAATCCAGAGGCAAGAAGT
TGGAATATGCCCCTTTCTCGTTTGATTCTCGAGACAAGAAGCTCAGTTACAGAAGGAGAAGAAAATAAAGAAC
TGCAGAAAGGGGAGGTGCCAAGTTCAAGGCACTTCCCTTGCCCTCATTTTGACACCATTAACTGCCAGAGAAGA
AGGTAAAGAATGTGACCCAGATTGAACCTTTCTGCTTGGAGACTGACAGAAGAGGTGCTCTGAAGGCACAGACTT
GGAAGCACAGCTGGAAGAAGAACTGAGACAGCAGAAAGAAGCAGCTTGTTTCAAGGCTCGTCCAAACACCGTCA
TCTCTCAGGAGCCCTTTGTTCCCAAGAAAGAGAAGAAATCAGTTGCTGAGGGCCTTTCTGGTTCTCTAGTTTCAAG
AACCTTTTCAAGCTGGCTACTGAGAAGAGAGCCAAAGAGCGGAGGAGCTGGAGAAGAGAATGGCTGAGGTAGAAG
CCCAGAAAGCCAGCAGTTGGAGGAGGCCAGACTACAGGAGGAAGAGCAGAAAAAAGAGGAGCTGGCCAGGCTAC
GGAGAGAAGCTGGTGATAAGGCAAATCCAATACGCAAGTACCAGGGTCTGGAGATAAAGTCAAGTGACCAGCCTC
TGACTGTGCCTGTATCTCCCAAATTTCTCCACTCGATTCCACTGCTTAAACTCAGCTGTGAGCTGCGGATACCGCCC
GGCAATGGGACCTGCTCTTAACCTCAAACCTAGGACCGTCTTGCTTTGTCAATTGGGCATGGAGAGAACCCATTTT
TCCAGACTTTTACCTACCCGTGCCTGAGAAAGCATACTTGACAACCTGTGGACTCCAGTTTTGTTGAGAATTGTTT
TCTTACATTACTAAGGCTAATAATGAGATGTAACCTCATGAATGTCTCGATTAGACTCCATGTAGTTACTTCTCTT
AAACCATCAGCCGGCCTTTTATATGGGTCTTCACTCTGACTAGAATTTAGTCTCTGTGTGACGACAGTGTAATCT
CTATTGCTATTGCCCTTACGACTCTCACCCTCTCCCCACTTTTTTTAAAAATTTTAAACCAGAAAAATAAGATAG
TTAAATCCTAAGATAGAGATTAAGTCATGGTTTTAAATGAGGAACAATCAGTAAATCAGATTCTGTCTCTTCTCT
GCATACCGTGAAATTTATAGTTAAGGATCCCTTTGCTGTGAGGGTAGAAAACTCACCAACTGCACCAGTGAGGAA
GAAGACTGCGTGGAATTCATGGGAGCCTCACAGCAGCCACGCAGCAGGCTCTGGGTGGGGCTGCCGTTAAGGCAC
GTTCTTTCTTACTGGTGCTGATAACAACAGGGAACCGTGCAAGTGTGCATTTTAAGACCTGGCCTGGAATAAATA
CGTTTTGTCTTTCCCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5716

MSQVKSSYSYDAP SDF INFSSLDDEGDTQNIDSWFEKANLENKLLGKNGTGGLFQGKTPLRKANLQQAIVTFLK
PVDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTPAQFQRRSLRLSAQKDLEQKEKHHVKMKAKRCATPVI
IDEILPSKKMKVSNNKKKPEEEGSAHQDTAEKNASSPEKAKGRHTVPCMPPAKQKFLKSTEEQELEKSMKMQQEV
VEMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRDTERIKQHPKNQEEYKEVNFTSELRKHPSSPARVTKG
CTIVKPFNLSQGKKRTFDETVSTYVPLAQQVEDFHKRTPNRYHLRSKKDDINLLPSKSSVTKICRDPQTPVLQTK
HRARAVTCKSTAELEAELEKLQQYKFKARELDPRILEGGPILPKKPPVKPPTPIGFDLEIEKRIQERESKKKT
EDEHFEFHSRCPCTKILEDVVGVPKVKLPITVPKSPAFALKNRIRMPTKEDEEEDEPVVVIKAQPVPHYGVFPKP
QIPEARTVEICPFSFDSRDKERQLQKEKKIKELQKGEVPKFKALPLPHFDTINLPEKKVKVNTQIEPFCLETDRR
GALKAQTWKHQLEEEELRQKKEAACFKARPNTVISQEPFVPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELE
KRMAEVEAQKAQQLEEARLQEEQKKEELARLRRELHVHKNPIRKYQGLEIKSSDQPLTVPVSPKFSTRFHC

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FIGURE 5717

GGCAGGCTATTCCGGACGCCAGCCCTGGAAGCTGAGCCTGACCCAGCAGGTCCCAGCAGCCTGGCAGCCCGGCCA
GCATGCAGCAGCAGCCTCTGCCCCGGGCCTGGCGCCCCACAAGCTGAGCCAACCAAGCCTCCCTACAGCTACATCG
CCCTTATTGCTATGGCCATCCAGAGCTCACCGGGGAGCGGGCCACCCTCAGTGGCATCTACCGCTACATCATGG
GCCGATTGCGCTTCTACCGCCACAACCGGGCCGGCTGGCAGAACAGCATCCGCCACAACCTGTCACTCAACGAGT
GCTTTGTCAAGGTGCCCCGCGATGACCGCAAGCCAGGCAAGGGCAGCTACTGGACGCTGGACCCCTGACTGCCACG
ACAIGTTTGAGCACGGCAGCTTCCTACGCCGCCGCCGCGCTTCACCCGGCAGACAGGTGCTGAGGGCAGCCGGG
GCCCCGCCAAGGCACGCCGTGGACCCCTCAGGGCGACCAGCCAGGACCCAGGAGTCCCCAACGCCACGACCGGCA
GGCAGTGCTCATTCCCACCAGAGCTGCCAGATCCCAAGGGCCTAAGCTTTGGGGGTCTGGTGGGGGCCATGCCAG
CCAGTATGTGCCAGCAACCACTGATGGCAGGCCTCGGCCACCCATGGAGCCCAAAGAGATTCCACGCCCAAGC
CTGCATGCCCAGGGGAGCTCCCCGTGGCCACCTCATCTTCCTCATGCCCAGCGTTTGGCTTTCCTGCCGGCTTCT
CAGAGGCTGAGAGTTTTAATAAGGCCCCCTACGCCCGTCTTGTCGCCGGAATCAGGCATCGGGAGCAGCTACCAGT
GTCGGCTGCAGGCACTGAATTTTTGCATGGGGGCTGACCCAGGCCTTGAGCACCTCTTGGCCTCAGCAGCCCCCT
CCCCTGCACCAACCCACCCCTCCAGGCTCACTCCGGGCCCCACTGCCCTGCCAACTGACCACAAGGAACCCCTGGG
TTGCAGGTGGCTTCCCTGTCCAGGGAGGCTCCGGCTACCCATTGGGGCTGACCCCTGCCTATACCGGACGCCAG
GAATGTTCTTCTTTGAGTAAAGGCAGCCTCACCTCGGGCAGTCCCTGCAGGTCCCTCACCTCCGGGCTGAGCCT
GGCTCTAGGACCTGAAGAACTCTCGAAGGACCCAGCCCTGGTGAGCCAAGGACAACCACACAGAAAGCCAGGATT
GAAGCGGTGCTCAGCCAGGCCCCCTGGGGCCTCCGGACAAACTTGGGGGTGAGGGGAAGCAGGGCCTCTTGGGATT
TACTCTGTGGCTCTCAGGGCCAATAAAGCCATGTGATGATG

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FIGURE 5718

MQQQPLPGFGAPTTEPTKPPYSYIALIAMAIQSSPGQRATLSGIYRYIMGRFAFYRHNRPGWQNSIRHNLSLNEC
FVKVPRDDRKPGKGSYWTLDPDCHDMFEHGSFLRRRRRFTRQTGAEGTRGPAKARRGPLRATSQDPGVNATTGR
QCSFPPELPDPKGLSFGLVGAAMPASMCPATTDGRPRPPMEPKEISTPKPACPGELPVATSSSSCPAFGFPAGFS
EAESFNKAPTPLVLSPESGIGSSYQCRLQALNFCMGADPGLEHLLASAAPSPAPPTPPGSLRAPLPLPTDHKEPWV
AGGFPVQGGSGYPLGLTPCLYRTPGMFFFE

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FIGURE 5719

GGCACGAGGATCCCGGGGTCGCGCGAGAGCCGCAAGCGGAGTTGGTGGGCGCTATGCTATCACCCGAGGCAGAGC
GAGTGCTGCGGTACCTTGTAGAAAGTGGAGGAGCTCGCCGAGGAGGTGCTGGCGGACAAGCGGCAGATTGTGGACC
TGGACACTAAAAGGAATCAGAATCGAGAGGGCCTGAGGGCCCTGCAGAAGGATCTCAGCCTCTCTGAAGATGTGA
TGGTTTGCTTCGGGAACATGTTTATCAAGATGCCTCACCCCTGAGACAAAGGAAATGATTGAAAAAGATCAAGATC
ATCTGGATAAAAGAAATAGAAAAACTGCGGAAGCAACTTAAAGTGAAGGTCAACCGCCTTTTGTAGGCCCAAGGCA
AACCGGAGCTGAAGGGTTTTAACTTGAACCCCTCAACCAGGATGAGCTTAAAGCTCTCAAGGTCATCTTGAAAG
GATGAGACTCAAGAACCAAGATGGGGGACCAGCAACCCCCCAGGGTCATGGAGGACCCAGGACCCCTCCAACCTTG
ACACCTGTAAGGACAGGATCTGCCCTGTAAGGGGCCAGCCGTCAGGAATCTGGCCATGAAAACCTCTTTGTAGTG
CTTGGCTACTCTGTGATGGCAGGAGGGAACCTTCAGCCTGTCTGGCTGCTGGACCTGGACACCAGGGCTCGGTGG
ACACAAGATCTATTGACGGGCCTTGGTAGCCACCAGTGGGTGTGTGGGGCAGTGGCTGTGGGGGTGTAAGAATGA
CTGCAACAGGCACTTCCCAACAATGGCCTGCTGTTTACATGGACCCTGAGCAAGGAAGGAGGGAGGGAGGGGCAG
AGTGGAGTGTCAATTCCAGCATTCTCTCAGAAGGGAGAGAGGTTTTCAGGCTGGTGCCATGCGATTGGAATAAAG
CAGGAGGCTCATGGGTGGTTGCTGAATGAAGAACAGAATCTTGGTGCTTTGTGGCTCACCACAGCCATCTGTGGG
GCAGGCACACACACCTCCCGCCAGCTCCAATTTTGACCTTTTCCCTGCTTGATTCCAAGAGTAGGTGCTGCCTA
GCAGCCCTTCGTGGCCACTCTTTACTCAGGAGGGCCTTGAGAGTCCTGCACCAGGCCTGGGTGAGTGGATGCGC
CTCTTACCATATGACACGTGTCAAGATGCCCTTCCGCCCCCTCTGAAAGTGGGGCCCCGCCAGCACTGCTCGTTA
CTGTCTGCCTTCAGTGGTCTGAGGTCCCAGTATGAACTGCCGTGAAGTCAAACTCTTATGTGTTTATTAAGGGC
TCAATAAATGTTAGCTGAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5720

MLSPEAERVLRYLVEVEELAAEEVLADKRQIVDLDTKRNNREGLRALQKDLSEDMVCFGNMFIKMPHPETKE
MIEKDQDHLDEIEKLRLKQLKVKNRLFEAQGKPELKGFNLPNQLDELKALKVILKG

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FIGURE 5721A

CCAAGATGGCGACGGCGATGGTGAGTGAAGGAGACTCCGGGAGCGGGAGCTGGAGCGGGGCCCTCCGGGGTATCC
CAGGATCTTCCAGCACCCCATGCCTGGCCCTGAGCCACCTCCGGGACCCCTGACTCAGGCCTGAGGGCTACCTCT
GACTGGGCTTGTCTTCCCCGAAATCCACCTCCCTGGCCCTGCCCTGCACTCAGGCTTGTGAAGGCCCCGAGTTT
TGGGGGAGGCGCCGTTTCGGAGGAAGACCTCGGCTGCTGCCTTCGCCGGTTCCTATTCTACTTTTGGTCTCCGCC
CACTGATTGGTTGCCGTGGTCTTTACTGCTTTTCTCCCTGATGTGTGAACAAGCGCCTTCTATGTGCTGGGGT
CGCGCCTATCAACTTCCACCAGAAGCATCCCGTAGAAATCAAGGCTGTGAAGCTCACCAGCTCTCGAACCAGCT
ACCTTATGAATACTATTCACTGCCCTTCTGCCAGCCAGCAAGATAACCTACAAGGCAGAGAATCTGGGAGAGGT
GCTGAGAGGGGACCGGATTGTCAACACCCCTTTCCAGGTTCTCATGAACAGCGAGAAGAAGTGTGAAGTTCTGTG
CAGCCAGTCCAACAAGCCAGTGACCCCTGACAGTGGAGCAGAGCCGACTCGTGGCCGAGCGGATCACAGAAGACTA
CTACGTCCACCTCATTGCTGACAACCTGCCTGTGGCCACCCGGCTGGAGCTCTACTCCAACCGAGACAGCGATGA
CAAGAAGAAGGAAAAAGATGTGCAGTTTGAACACGGCTACCGGCTCGGCTTCACAGATGTCAACAAGATCTACCT
GCACAACCACCTCTCATTATCCTTTACTATCATCGGGAGGACATGGAAGAGGACCAGGAGCACACGTACCGTGT
CGTCCGCTTCGAGGTGATTCCCCAGAGCATCAGGCTGGAGGACCTCAAAGCAGATGAGAAGAGTTCTGTCACTCT
GCCTGAGGGTACCAACTCCTCGCCCCAAGAAATTGACCCACCAAGGAGAATCAGCTGTACTTCACCTACTCTGT
CCACTGGGAGGAAAGTGATATCAAATGGGCCTCTCGCTGGGACACTTACCTGACCATGAGTGACGTCCAGATCCA
CTGGTTTTCTATCATTAACTCCGTTGTTGTGGTCTTCTTCTGTGTCAGGTATCCTGAGCATGATTATCATTCCGGAC
CCTCCGGAAGGACATTGCCAACTACAACAAGGAGGATGACATTGAAGACACCATGGAGGAGTCTGGGTGGAGTT
GGTGACGGCGACGTCTTCAGGCCCCCAGTACCCCATGATCCTCAGCTCCCTGCTGGGCTCAGGCATTACAGCT
GTTCTGTATGATCCTCATCGTCATCTTTGTAGCCATGCTTGGGATGCTGTGCCCCCAGCCGGGGAGCTCTCAT
GACCACAGCCTGCTTCTCTTCATGTTTCATGGGGGTGTTTGGCGGATTTTCTGCTGGCCGTCTGTACCGCACTTT
AAAAGGCCATCGGTGGAAGAAAGGAGCCTTCTGTACGGCAACTCTGTACCCTGGTGTGGTTTTTGGCATCTGCTT
CGTATTGAATTGCTTCATTGSGGAAAGCACTCATCAGGAGCGGTGCCCTTTCCACCATGGTGGCTCTGCTGTG
CATGTGGTTCGGGATCTCCCTGCCCTCGTCTACTTGGGCTACTACTTCGGCTTCCGAAAGCAGCCATATGACAA
CCCTGTGCGCACCAACCAAGATTCCCCGGCAGATCCCCGAGCAGCGGTGGTACATGAACCGATTGTGGGCATCCT
CATGGCTGGGATCTTTGCCCTTCGGCGCCATGTTTCATCGAGCTCTTCTTCATCTTCAGTGCTATCTGGGAGAATCA
GTTCTATTACCTCTTTGGCTTCTGTTCTTGTGTTTTCATCATCCTGGTGGTATCCTGTTTCAAAATCAGCATCGT
CATGGTGTACTTCCAGCTGTGTGAGAGGATTACCGCTGGTGGTGGAGAAATTTCTAGTCTCCGGGGGCTCTGC
ATTCTACGTCTCTGGTTTATGCCATCTTTTTATTTCTGTTAACAAGCTGGACATCGTGGAGTTCATCCCTCTCTCT
CTACTTTGGCTACACGGCCCTCATGGTCTTGTCTTCTGGCTGCTAACGGGTACCATCGGCTTCTATGCAGCCTA
CATGTTTGTTCGCAAGATCTATGCTGCTGTGAAGATAGACTGATTGGAGTGGACCACGGCCAAGCCTGCTCCGTC
CTCGGACAGGAAGCCACCCTGCGTGGGGGACTGCAGGCACGCAAAATAAAATAACTCTGCTCGTTTGAATGTA
ACTCTGGCACAGTGTTCTGGATCCTGGGGCTGCGTGGGGGGCGGGAGGGCCTGTAGATAATCTTGCCTTTTC
GTCATCTTATTCCAGTTCTGTGGGGGATGAGTTTTTTTGTGGGTTGCTTTTTCTTCAGTGCTAAGAAAGTTCCCT
CCAACAGGAACCTCTCTGACCTGTTTATTACAGGTGATTTCTGGTTTGGATTTTTTTCTCTCTTTGTTTAAACA
AATGGATCCAGGATGGATAAATCCACCGAGATAAGGGTTTTGGTCACTGTCTCCACCTCAGTTCTCAGGGCTGT
TGGCCACCCTATGACTAACTGGAAGAGGACACGCCAGAGCTTCACTGAGGTTTCCGAGCCTCTCCCTGCCCATCC
TCACCACTGAGGCCACGACAAAGCACAGCTCCAGCTCGGACAGCACCCCTCAGTGCCAGCCAGCCTCTGCCAGACC
TCTCTTTCCCTCTTCTCCCCAGCCTCCTCCAGGGCTGCCCAAGGCAGGGTTTCCAGCCAGGCCTCGGGGTCATCT
TTTACCAGGAGCAAACCAAGTCTTAGTTGCTACAAGAAAATCCCTGGAAGTACTGGGGGCCAGGTTCCCCAG
ACAGCAGGAATTGCCCCGTTCAGAGCAGCCGGAGTTTGTGGACCACAAGGAAGAAGAGAAGAGACTTGCAGTG
AACTGTTTTTGTGCCAAGAAACCCTGGACCTGGGGCCAAGTATTTCCCAAGCCAAGCATCCACTTGTCTGTGCT
GGGAAGGGATGGCCAAGGCCGCTAGGGTCTTACCCCTCAGGATCACTCCCCAGCCCTTCTCAGGAGGTACCG
CTCTCCAAGGTGTGCTAGCAGTGGGCCCTGCCAACTTCAGGCAGAACAGGGAGGCCAGAGATTACAGATCCCC
TCTGTAAAGTGGCCAGGCATTCTCTCCCTGCCCTCTCTGGCCTCTGGGGTCATACTCACTTCTTTAGCCAGCCCC
ATCCCCCTCCACCCACACCTGAGTCTTGCCTCCTCCTTTTGGGGACACCCAAAACACTGCTTGTGAGAAGGAAG
ATGGAAGGTAAGTTCTGTGCTTCTTTCCCAATCCCCAGGAATGGACAAGAAGCCAACCTAGAAAGAAGGGTCTC
ACGTGGCTGGCCTGGCTCCTCCGTAGACCCCTGTTCTTTTCAACCTCTGCCACCCGTCATGTCTACAAACA
TTTGCTCTTAAGTTACAAGAGACCACATCCACCCAGGGATTAGGGTTCAAGTAGCAGCTGCTAACCTTGCACCA

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FIGURE 5721B

GCCCTTGTGGGACTCCCAACACAAGACAAAGCTCAGGATGCTGGTGATGCTAGGAAGATGTCCCTCCCCCTCACTG
CCCCACATTCTCCCAGTGGCTCTACCAGCCTCACCCATCAAACCAGTGAATTTCTCAATCTTGCCTCACAGTGAC
TGCAGCGCCAAGCGGCATCCACCAAGCATCAAGTTGGAGAAAAGGGAACCCAAGCAGTAGAGAGCGATATTGGAG
TCTTTTGTTCATTCAAATCTTGGATTTTTTTTTTTTCCCTAAGAGATTCTCTTTTtagggggaatgggaaacggac
ACCTCATAAAGGGTTCAAAGATCATCAATTTTTCTGACTTTTAAATCATTATCATTATTATTTTAATTAAAAA
AATGCCTGTATGCCTTTTTTTGGTCGGATTGTAAATAAATATACCATTGTCCT

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FIGURE 5722

MCETSAFYVPGVAPINFHQNDPVEIKAVKLTSSRTQLPYEYYSLPFCQPSKITTYKAENLGEVLRGDRIVNTPFQV
LMNSEKKCEVLCSSQSNKPVTLTVEQSRLVAERITEDYYVHLIADNLPVATRLELYSNRSDDDKKKEKDVQFEHGY
RLGFTDVNKIYLNHLSFILYYHREDMEEDQEHTYRVVRFEVIPQSIRLEDLKADEKSSCTLPEGTNSSPQEIDP
TKENQLYFTYSVHWEEESDIKWASRWDTYLTMSDVQIHWFSIINSVVVVFFLSGILSMIIIRTLRKDIANYNKEDD
IEDTMEESGWKL VHGDVFRPPQYPMILSSLLGSGIQLFCMILIVIFVAMLGMLSPSSRGALMTTACFLFMFMGVF
GGFSAGRLYRTLKGHRWKKGAFTATLYPGVVFGICFVLNCFIWGKHSSGAVPFPTMVALLCMWFGISLPLVYLG
YYFGFRKQPYDNPVRTNQIPROIPEQRWYMNRFVGI LMAGILPFGAMFIELFFIFSAIWENQFYLFGLFLVFI
ILVVSCSQISIVMVYFQLCAEDYRWWWRNFLVSGGSAFYVLVYAIFYFVNKLDIVEFIPSLLYFGYTALMVLSFW
LLTGTIGFYAAYMFVRKIYAAVKID

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FIGURE 5723A

ATGCCCCGACCGCCGCCACTACCGGGGCTGAGGGGGCTGGCGGAGCCCGAGCGCGGCCCGGCCGCAGCGTGG
GGCCCCGAGCGCGGTGAAGAGATTGTTTTCTGAAAGCTGCGTTGGAGGCTGTGACAGAGCTGAGAGCCTGTGTGG
AGCGGATGGGGAGGCTTTCTCAATAACATGGCCCTTTGCCATTAGCCTTGCCATGACCACATTTTACCAGCGT
CCCCCCTGGATTCAAGATGCAAAGCAGGAGGAGGAAGTGGGCTGGAACTAGTTCACAGCCTCGGGGCCGGA
GGCGGAGAGTCAAGTGAAGTGCCAAATGTGAAATTCGGGAACACCTTTCTCAAATGGGGAGAAGCTGAGGCCTCA
CAGCCTCCCGCAACCAGAGCAGAGACCATATAGCTGCCCTCAGCTGCACTGTGGCAAGGCTTTGCTTCAAATA
CAAGCTGTATAGGCACATGGCCACCCACTCAGCCAGAAACCCACCAGTGTATGTACTGTGATAAGATGTTTCA
CCGCAAGGACCATCTGCGGAACCATCTGCAGACCCATGATCCTAACAAAGAGGCCCTCCACTGCTCTGAGTGC GG
TAAGAATTACAATACGAAGCTGGGCTACCGGCGCCACCTGGCCATGCATGCTGCCAGCAGCGGTGACCTCAGCTG
CAAGGTGTGCTGCGAGACCTTTGAGAGTACCCAGGCCCTGTAGAGCACCTGAAGGCCACTCAGCCGGGTAGC
AGGCGGTGCCAAGGAGAAGAAGCACCCCTGTGACCACTGCGACCGGCGGTTCTATACTCGTAAGGATGTACGGCG
GCACCTAGTGGTGACACAGGCCGTAAGGACTTCCTGTGCCAGTACTGTGCCAGCGGTTTGGCCGTAAGGACCA
CCTGACGCGTCATGTCAAGAAGAGCCACTCGCAGGAGCTGCTCAAGATCAAGACAGAGCCGTGGACATGTTAGG
CCTACTCAGCTGCAGCTCCACAGTCAGTGTGAAGGAAGAGCTGAGCCCTGTGCTGTGCATGGCCTCTCGGGACGT
AATGGGGACCAAGGCCTTCCCTGGCATGTTGCCATGGGCATGTATGGTGCCACATCCCTACCATGCCAGCAC
GGGCGTGCCACACTCCCTGGTGACAACACGCTGCCCATGGGTATGAGCTACCCCTCTGGAATCCTCACCTATCTC
TTCCCCAGCTCAGCTCCCTCCAAAATACCAGCTTGGATCTACCTCATACTTGCCCGACAAATTGCCCAAAGTGGA
GGTGGATAGTTTTCTGGCGGAGCTTCTGGAAGCCTGTCTCTCTCATCCGCTGAACCCAGCCCGCCTCACCTCA
GCCGGCGGAGCTGCGGCCCTCCTAGATGAAGCACTGCTTGCCAAGAGCCCGCCAACCTCTCTGAGGCCCTCTG
CGCTGCTAATGTGGACTTCTCCACCTACTGGGCTTCTTCCACTCAACCTGCCCGGTGTAACCCACCTGGGGC
CACAGGAGGCTGGTCATGGGCTACTCCCAGGCTGAGGCACAGCCCTGCTTACCCTTTGCAAGCTCAGCCTCA
AGATTCAGGAGCTGGGGGACCACTGAACTTTGGGCTCTGCACTCCTTGCCCTCTGTCTTACGTCTGGCCT
GAGTAGCACCAACCTGCCTCGTTTCCATCAAGCATTCCAGTACCCCCACAGAGGCCCTCAGCTCAGTTTTTGGC
TCTGTTATGGAGCCTTAGTACCCACCCGCTGTGTGTCCTCATGAAGGCAGCTGAGCTTTCAGAGCTGGGTTCAA
AAAAAAAAATTCCAGTGTCTGTATACAGGAGCACTTGGTTTGGGGGTTGAGGCTCTAGGATCGATTCCAGAAGGA
GCCTTGAGCCCCAACCCCGTGAAGATCTCATACCGTAGGACTTCAGGTATTATTTACTTTTATTTTTTGACC
TGAATCGGGAGCCACACTTGGCCCTCTTCTCTCAAAGCGCCAGAACCTCCTTCTCTTTGGAGAATGGGGAGGC
CTCTTGAGACACAGAGGGTTTACCTTGGATGACCTCTAGAGAAATTGCCCAAGAAGCCACCTTCTGGTCCCA
ACCTGCAGACCCACAGCAGTCAGTTGGTCAGGCCCTGCTGTAGAAGGTCAGTTGGCTCCATTGCCTGCTTCCAA
CCAATGGGCAGGAGAGAAGGCCTTTATTTCTCGCCACCCATTCTCTGTACCAGCACCTCCGTTTTCAGTCAG
TGTTGTCCAGCAACGGTACCGTTTACACAGTCACCTCAGACACACCATTTCACCTCCCTTGCCAAGCTGTTAGCC
TTAGAGTGATTGCAGTGAACACTGTTTACACACCGTGAATCCATTCCCATCAGTCCATTCCAGTTGGCACCAGCC
TGAACCATTTGGTACCTGGTGTTAACTGGAGTCTGTTTACAAGGTGGAGTCGGGGCTGTGACTTCTCTTCAT
TTGAGGTCACATTTTTCCCCCGTGGGGAATAAACTGACTTTGGACTGCTTCAGTCTCTGCCATCTTCCATGACT
GCATTTGTTCTGCTGCTGCTCGGCGGTATCCACAGAAGACAGGCAAGAGGATTGGAGCAGTTTTCTCACAGGTCT
GCAATTCGTTTTTCTCAAGTACATTATGACCCCTCATCCTTCTCTGAACTGGAGAGGGGAAGAAATGAAAG
GCATGCCACGTCCGTACCTCCCCATCCCTAGTCCCCACCTTGAACATCATGAGCTGTTGTTATTAGTCTTGG
AAGCAGAGTCTGGGTTGGTGTGGATAGCAAAGGAGGAAGTCTGAGCCCTCATTGGTCTTCTCCACCTGTCCC
TTTTCCGGGAAGTTGTGGAATTGTTGGAAGAAGAGTTTGAGAAGGTTAGGAATGGGTAGATAGCTAAGTCCATA
TCTATGGGTACATTGTTGTGTCCCAAACCAAAATTTTCTTATCCACAATGTCCCTTCTGTCTCTTCCACTTTAC
AGTGGACTCGGCCACTGTGCATAGGCTTCTCTGCTCTCCATCAAATCACTTCCACTTCTCTGTGCCCCACCCCC
GCCTCCAGTTTTCCGCTAGTATCCGGCAAGGTTTCTTGCAACAAATGATTAGTCTTTTCTTCTGACTCGTGGGG
CTCCCTGCTGCAGAGAGCACAGCCCTTGCCCTGGAGCCAGGAACCCCATCCTTGCTTCATCTCAGTTCTTCATGG
GCTTCACTCTTCCCACTCACGGAAGGGAGGTAGCTCAGGGACCTCCACTGTGGGACCCCTTGAGACGCTTCCACTC
TGATTAGAAACACACTTCTACCTCTTTACTGTTAACTCTTAACAGATGCAGTCAGCAGTTTCTGGGCACTTCTC
TCAGTAGGTGCTCATGCTGACTTCTCCAGTAGGTTTTCAGGACAACTACCAAGGAATTGCCTCAGCCTCCTAC
CAGTCTCCTCACCCACCTTCTGTCTAGGTTCACTTGGTTTGTCTATCAGGAAGTGGAGGTCAGGACTCAGC
TTTCTGCTTCAGCCTAAGCCAGTACTCCTGTTTGGAGTAAAGCCTTAAATTTAGCTCCCTAGCTCTTGATTA

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FIGURE 5723B

GAAGCAATTTGGAGTAAGTGTGTTTTGATTTAGGCAGGGTAGCTTGGGATACCTTTTTAAAAACACCAGATATTA
AAATGTCTGGCAAGGTTAGAATCAGACTAGATGATTTGCTTCTAAAAATTAGTTTCAGTGAGTCCCAGGGACTAA
TTAAGGTTTATTTTAAAAAGTGTCTACCTTGGTACGCAGCCACCTCCTGCAIGCTGTGCATGTTATTGGGACTTG
TATTATAGGTGATGGTATGTGAGAAATCCAGTTGGGACTCGCTGTTGCCATCCTCTTTGTTGTATCTGGTTTTTCA
CACTAGACTCAGCAACCCCTTCTCACCTTAAGTCCACCTTCCCTACACTCTCAGTTTACAGAGGCCACTGGGCCT
CTGGCTGCAGAAATACAAAGTCCCAGGCTGTTAGAGGAGTCTTTTCTCTCTGCTGCCCCCTTCTGTCCCTCCCT
CGAATTCTCTCTCCCCGTAAGTGATGCTGGAAAAGTCATAGGACTGGCAAAGCAACTGTTTAAACCCCTTTGTAAC
CGGGGCCCTTGCCCCACCTCCTGTCTTTTTCTCCTTGCCCTTCCCCACTCCTGTGTCTCTCCATCTATCCTGTCTTT
CCTTTCTCTCTCTCAGTGCTCTCAGCACCCACAAGGAATTTTCTATCACTGTGAACCTTTGCTGGTACAGAGGAA
TAATATCTGCCTTTCACCTTTTTTTTTTTTGGACCATAGCTAGCCAGTCATTTCTTAAACCTCCCTTCTAAAACT
GGGGGGTCGGGGGGGAAAAGAAAAAAGCCTTAGTGGCCTGGTTGTTCAAAGGATAAGAATAGCTTTATCCTGCA
CTCAGTACCCGAACTCACTTCACTATGCTTACTGAGGCCATGAGAACCTGAGGGGCATCTGCCAGGACAGGAGC
CATGGCATATGACAAAGACCAATGAGGGACCAGGAAAAAAGTGATGTCCCCTTTCCCTGCCACCTCCAGCCTCT
GCCAGCAATGAGCTGTCCCCCTCCCACCTACACAGTAGCTGGTCAGGGCTGAGTACAGTCTGGGGGTAAAGGG
ATGACATGCCCAGGTGTCAGCTCAAAGGATCTCTGCATCATCTTGAGGTGGGAGGCAGGGAAAGGAGCGCCAATG
AGGTTCCCTGCAACCCCCGCCCTCCAGCCCACCGCCCAACCTTTTACAAATGGCATTCTTCTTAATTGAAAAATCCG
GGAAGCAGGTGTGATTACTTTTTTGCTCGTAGATATTGTCCTAAGTTGGAATCTCCCACTGCCCTAAAACTTTC
CCTAGTAGTCTTTAAACTCCCCCTCCCTTTTTTGGTAGCTGTTTTCTCCGTCCTCTCTCCACCTGCCCTCTTAT
CTAGGAGCTGTTTGTAAGCACGATTTTTTTAACAGGTTATATTGTACAGGATCAATATTTTGCTTTTTAACAAAGG
ATATTTATGTAATAAGAACTTTGCCTTAGGCAGGTGTTGGCCAGAAAAGTCCAGATTCTCTGGGATCCCCACCC
TGGCCTCTCCTGGAACCTCTGAACCTGCTGTGGAAGGAATTGGCCATGACCTTCACCTCTGGAGAGTAGGGTCTAT
GGCGAGGGGAAAAGGGTGTTCACCATGATAACCTAGTGCCTCCATAGAGGGGTTTGGAATAATCCAGTCCGATTT
CTTTGTGTGTCAGCTGACTTCCTTAGCTGATTGTTCCCACTTGACCTCTCCACCTTTGGCACTAGAACTCCTGA
GACACCACTTCTCATGCTTCTCCCTCCCTACCAGCGGTCAAGGCTTTGGAGCCACTCTTTTGTAACCTCCAGATTA
TTTAAAGAGAAAAGTACAAGACAGAAATCTTCTAGCACTTTGTAAACACAGTGAATAACCTCTTGGAGTATTTTT
GGCTTTATATAAAACAAGGTTTTTAATTGTAAAGTATAAGTGCCATTAGAAAATGCACAGGGCATATCTTTGTTA
AAGTAGATTTTTCAATGTTTTACAGAATTACATTTTCAAAAAAGGTTTTTATAATGAAGTTGTTTATTA AAAAC
TTCTGAATGATG

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FIGURE 5724

MTTFFTSVPPWIQDAKQEEVGVWKLVPVRPRGREAESQVKCQCEISGTPFSNGEKLRP HSLPQPEQRPYSCPQLHC
GKAFASKYKLYRHMATHSAQKPHQCMYCDKMFHRKDHLRNHLQTHDPNKEALHCSECGKNYNTKLG YRRHLAMHA
ASSGDLSCKVCLQTFESTQALLEHLKAHSRRVAGGAKEKKHPCDHCDRRFYTRKD VRRHLVVHTGRKDFLCQYCA
QRFGRKDHLTRHVKKSHSQELLKIKTEPVDMLGLLSCSSTVSVKEELSPVLCMASRDVMGTKAFPGMLPMGMYGA
HIPTMPSTGVPHSLVHNTLPMGMSYPLESSPISSPAQLPPKYQLGSTSYLPDKLPKVEVDSFLAELPGSLSLSSA
EPQPASPQPAAAAALLDEALLAKSPANLSEALCAANVDFSHLLGFLPLNLPPCNPPGATGGLVMGYSQAEAQPLL
TTLQAQPQDSPGAGGPLNFGPLHSLPPVFTSGLSSTTLPRFHQAFQ

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FIGURE 5725A

CTTCCCTCCCCGACTGTGCGCCGCGGCTGGCTCGGGTTCCCGGGCCGACATGGGCGCCGCCGCGTGGGCACGGCC
GCTGAGCGTGCTTTTCTGCTGCTGCTTCTGCCGCTCCCGGGGATGCCTGCGGGCTCCTGGGACCCGGCCGGTTA
CCTGCTCTACTGCCCCGTCATGGGGCGCTTTGGGAACCAGGCCGATCACTTCTTGGGCTCTCTGGCATTTCACAA
GCTGCTAAACCGTACCTTGGCTGTCCCTCCTTGGATTGAGTACCAGCATCACAAGCCTCCTTTCACCAACCTCCA
TGTGTCTTACCAGAAGTACTTCAAGCTGGAGCCCCCTCCAGGCTTACCATCGGGTCATCAGCTTGGAGGATTTTCAT
GGAGAAGCTGGCACCCACCCACTGGCCCCCTGAGAAGCGGGTGGCATACTGCTTTGAGGTGGCAGCCCAGCGAAG
CCCAGATAAGAAGACGTGCCCCATGAAGGAAGGAAACCCCTTTGGCCCATCTGCGGATCAGTTTCATGTGAGTTT
CAACAAGTCGGAGCTTTTTACAGGCATTTCTTTCAGTGCTTCTACAGAGAACAATGGAGCCAGAGATTTTCTCC
AAAGGAACATCCGGTGCTTGCCCTGCCAGGAGCCCCAGCCAGTTCCCGTCTCTAGAGGAACACAGGCCACTACA
GAAGTACATGGTATGGTCAGACGAAATGGTGAAGACGGGAGAGGCCAGATTTCATGCCACCTTGTCCGGCCCTA
TGTTGGGCATTTCATCTGCGCATTGGCTCTGACTGGAAGAACGCCTGTGCCATGCTGAAGGACGGGACTGCAGGCTC
GCACTTCATGGCCTCTCCGAGTGTGTGGGCTACAGCCGAGCACAGCGGCCCCCTCACGATGACTATGTGCCT
GCCTGACCTGAAGGAGATCCAGAGGGCTGTGAAGCTCTGGGTGAGGTCGCTGGATGCCAGTCGGTCTACGTTGC
TACTGATTCCGAGAGTTATGTGCCTGAGCTCCAACAGCTCTTCAAAGGAAGGTGAAGGTGGTGAGCCTGAAGCC
TGAGGTGGCCCAGGTCGACCTGTACATCCTCGGCCAAGCCGACCACCTTATTGGCAACTGTGTCTCCTCCTTCAC
TGCTTTGTGAAGCGGGAGCGGGACCTCCAGGGGAGGCCGTCTTCTTTCTTCGGCATGGACAGGCCCCCTAAGCT
GCGGGACGAGTTCTGAATTCTGGCCGGAGCACCAGACCCTCTGATCCTGGAGGGACCAGAGTCTGAGCTGGTCCTT
CCAGCCAGGCCTGGCAGCCAGAGGTGCTCCGGGATTGCAAACCTCCTCTTCTCACCTGCCAAAGATGGAGAAGAGT
GCCAGGGACCCCTCAAGGAGGGAGACGCTCCATATCCAGGGCATAGGACTTGCAGTTTCTAGGAGCAGGAGCA
TCTCCCATCGCACGTGCTTTCTGCTCTTCTGGAATTTCTCACACTGGCAAAGCAGTCCAGCCTCCGTCTTCTGG
TCCACTCTGCTCTGAGCAGCCTGGGATGCTGAACCTTTCAGAGAGATTTTTTATAGAGAGATTTCTATAATTTT
GATACAAGGTCACTACTATCCTAGAACTCTCTGTGGTTTTTGAAAATCATTGAATTTCTATTAATGTAGGTACCTA
AAGTGACCTTAAGTGAATGTGGATGAGGCTGGGGCTGGTGTGGTCTTTTGGCTGCTTTTCAAGGTGTCCCCAA
TGTGGCCCTCAAGAGCCATCCCCACTGCCTGGCCAGAGCATTGTTGTCCCTACTTCTAGGCCATTTCTGGGG
CTTGGGGGATGAATGCTGTCTGTCTGTGCTGTAAACACTATGCAAATGGAAGTTATCGGTTGTGGTGCTGTGCAGCGC
TCTGTGGGCGACTAAGTGCCACTCACGCAGCATGTTCTGGCAAGGAGCACATACCATCAAGCCACACTATCATG
GTATTGTTCTCACAGTCTTTTGGTGGTTGATGGCCACTGCAAACCTGGCACCATCAGATCTCTTCTGATCTCTTG
CCCCAGTGGGGCCTGGTTGGTAGAATGTTGGCATTGCGTTGATATCCAAAGCCTGTTCTCCAGCCGTCTCCTG
CAGCTGGAGCCTTCAGGCCGATTTCTCACGAGGGAACGTTTGCCAAGGCTCTGACCTCACAGAAGATGCCAGGG
CCCAGAAGCCATCAGAATTATCAGTGGAGAAGCACCTTTTACTCTTCCCTTCCAATGTAATCTCTGCCAACACC
ATGAGGCTTAAGGTGCTCTAAGTCATGAGTGTTTTGGTCTCAAATGCTGCAGTTTTAATAATCTGTGACTCCTGA
GAGCCCATGGTTTTTTGACCTTGTGGTTCTAAAATTCCTTGTCTGACCCCTGTAGATCTTTTCTTGCCATGTCA
CCTCCCTTGGCCCTTTGATCCTGGAAAGGTGGCAGAGCCTCCACTGAGCCAGGCCAGAGCTCCTTGCAGTGCCTT
CTTCTTGTTTACCTGTGGGAGGAAACACTTTTTTTGTGAGGGGAGCCTGGTTTCAAGCTCAGAGGTACACTG
TATCAAAGATCTCAAACAGCAAAGTCAGCATTGCTGTATAGAGCTGCCACCCAACTCTAAGCAGGAGAACTGT
ACAGAAAGGGCTTTGCTATTTTTCCCTTTTGGGAAACAATGAAGTGTTTTAAGTCTGGGTGGACTGAGAGATG
GTTTGCTGTCCAGACTTGCTCTCAAGCCTCATCCAGAGAAGGAGCTGCAGATGAGGGAGCCCGTACACTCCCTG
CCACCACTAGGTTGTAAGCCTGTAGCTGGCTGGCTGATTTTCAATTTTGAATTCATTTGCCATCCACAGCCTTACA
CTAGGCACACACTTTAGAGTCTGGGGCTCCAGTGGGGCCCGCTAATTTTTTTTCCCCCAAGACAGGGCCTTGC
TCTGTCTCCAGGCTGGAGTGCAGTGGCATGATCATGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGCGATCC
TTCTGCCTCAGCCTCTCTGGTAGCTGAGACTGCATGCCAGCTCCAAATCACCTTGATTTCATATCAGCAGTAATA
ATCACTTGTGTTCTGAAAGAAAGGGCACCAGAAGTTCTAGCAAATTCAGTTGTGTTCTGTGAGCTAGCACTTTT
TCCTCTGACCCAATTTTCTTACCTATAAAATGGTGATAAAAACCGACAGGTTGTTCAAAGGCCAGATCAGCTAA
AGCATGTATATAAGAGCACGTTGTAACTTGAAGAGACAAAGGCACAAATGTGGCTGTTGATTAATTTGACTGC
TTCTCGTTGCTCGTCACCTCCATGCCAGGCACTGTGCTTGCTAATTGCTTTATGGGGGCATTCTCTTATTTATTC
CCCAGCCCTGGGAAATAGGAGCTGTCAATTATCCTTCTCTTTCTGCACAAGGAAAAATTAATGCCCTGAGAATTGT
CATAATTTTCCCAAGGCTGCCAGCTGGTGGTGTTAAGCCAGAATTTGACCTCCAGAGCCAGTTTCCATTAGCT
GCCATGCTCTGCTGCCTCTAATTCACAGAATGCACTTTCTACCTGTGTGCCATGGAGACCTCCTATGGAAAAAT

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FIGURE 5725B

GATCAGCCACCTTACCTTCTACTGGGTACCTGCTGTGAGTCTGCCTATGCCAGAAGGATTAAGGAGGGGAGGTTA
CCCAAGAAACAAAGCCTACATGCCGCTTACAGCCCCCGTTGGATGGTTGCTCAGTACAACAGTCTTGCAATTCAGC
AGGTGTTTGTTCATCACCTACTATGTGTCAGGCTCTATGCTAGGTACTGGGGATACAGGAGAGAATCAAGCGTAA
AGTCTTTGTTCTCAAGGAATTTGCATTCTAGAAAAGTAGAAGATGTAATAAATGTACTGTGGGACATGTTAATAAG
TGCTATAAAGAAATATAAAGGGTTTGGGAGCAAAAAGAGGGAGTGGATCTATTTTAGATGAGCCCAGGTAAGACC
TCTCTGAAGAGCTGTCTATGAAGGAGGGAGGGAGCACATTCTTGGCAGAGAAAACAGCACGTGCAAAGGCCCCGAG
ACTGGAGTGTGTTCTGAAGAGCAGCCAGGAGGCCAGCATGGCTGGAGAGGCAGGCATAGGCAGGGAACCGAGCA
GCAGGTCAGAGCAGGCGAGCTGACATTCTGCAGCCTGGACGGCCATGGCAGGAAGCTTTTAGTTGGAGAGATACA
GGAAGCCTCCTAGGGTTCTGAGCAGAAGAGGGGCATGAGCTGATTCACATTCTGAAGGACCTCTCTAGCTGGCCA
GTGCTGAGGAGGTTGGAGAGAGAAAGGGTGAAAGCAGAGAGACCAGTGCAGGGCTGTTAACAGGGTTGCAGGCGA
GAGACTGGGGTGCTGGGCTCCCCTAGACTAGGACTCCAGTGGCCTCCTCTCCCAAGAGACAAAGGCCATTGCATT
GAAGGAGGTGGGAAATGATTAGATTCTGAACATATGTAATTATTTTTCAGTCTTTTCAAAGATACAAATATTTA
CATAGTTTAAATCATGTAATATATACAATTTAATGTCTAGTGTCTTACTTAATAGTGTATCATGTTTTCCCTGT
TGGTATGTAGCCTGGATAAATGCTCTTAATTATAAAAAATCTGTGCGAGGAGTGTCCATAGTTTATTGTTTTCC
TATTATGAGAATTTAGGCCAAGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGCGAGGCCGAGGTGGGCAGA
TCACTTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAATTATCTCTACTAAAAATACAAAAAATAA
TAATAATAGCCAGGCCGTGGTGGCACATGCCTGTATTCCCAGCTGCTTGGGAGGCTGAGGCAGGAGAATGGCTTGA
ACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATGGTGCCACTGCATTCCAGCCTGGGCAACAGAGCGAGACTCCA
TCTCAAAAAAAGGAGACTTTCATGTGCCCCCAATTTTTCTACTATTGTTATTTGAAAAAATATTTTATTGTAA
AGTTTTTCTTTATTTAAATGTTTATTAAATAAAGTTGTTGGACGGGAAGCAAAAAAAGTTGTTTAAAGATAA
ATTCCCAGAAGTGAATTTGTTAGATCAAACACTTAAACCTTTTTGTTATGGAAGAATTCAAATATAAATAAAAAA
TTGTGAGTAATAAATGAACTCACAGTTTCAACAATGACCCAC

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FIGURE 5726

MGAAAWARPLSVSFLLLLPLPGMPAGSWDPAGYLLYCPCMGRFGNQADHFLGSLAFAKLLNRTLAVPPWIEYQH
HKPPFTNLHVSQKYFKLEPLQAYHRVISLEDFMEKLAPTHWPPEKRVAYCFEVAAQRSPDKKTCPMKEGNPFGP
FWDQFHVSFNKSELF TGISFSASYREQWSQRFSPKEHPVLALPGAPAQFPVLEEHRPLQKYMVWSDVMVKTGEAQ
IHAHLVRPYVGIHLRIGSDWKNACAMLDGTAGSHFMASPCVGYSRSTAAPLTMTMCLPDLKEIQRAVKLWVRS
LDAQSVYVATDSESYVPELQQLFKGKVKVVS LKPEVAQVDLYILGQADHFIGNCVSSFTAFVKRERDLQGRPSSF
FGMDRPPKLRDEF

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FIGURE 5727A

ACCCACTCCCGCTGCCCCGTCCGGCCCCGCGCCGCTTCCTCGCAGCAGCTGCTCCCGGCTCCGCGGCCGAGCCCCG
CGTGGACGCTCCGAGCGCCCCCGACGGACGGGACCGGCTCCCTGGCGGTCGGGCGAGCGGGCGGCAACGCTGCC
CGGCCGGCAGCGCTGGGGTTAAGTGGCCCCAAGTAAACCTAGCTCGGCGATCGGCGCCGGAGATTCGCGAGCCCAG
CGCCCTGCACGGCCGCCAGCCGGCCTCCCGCCAGCCAGCCCCGACCCGCGGCTCCGCCGCCAGCCGCGCCCCAG
CCAGCCCTGCGGCAGGAAAGCATGAAGGGAGACACCAGGCATCTCAATGGAGAGGAGGACGCCGGCGGGAGGGAA
GACTCGATCCTCGTCAACGGGGCCTGCAGCGACCAGTCTCCGACTCGCCCCAATCCTGGAGGCTATCCGCACC
CCGGAGATCAGAGGCCGAAGATCAAGCTCGCGACTCTCCAAGAGGGAGGTGTCCAGTCTGCTAAGCTACACACAG
GACTTGACAGGCGATGGCGACGGGGAAGATGGGGATGGCTCTGACACCCAGTCATGCCAAAGCTCTTCCGGGAA
ACCAGGACTCGTTTCAGAAAGCCCAGCTGTCCGAACCTCGAAATAACAACAGTGTCTCCAGCCGGGAGAGGCACAGG
CCTTCCCCACGTTCCACCCGAGGCCGGCAGGGCCGCAACCATGTGGACGAGTCCCCCGTGGAGTTCCTCGGCTACC
AGGTCCCTGAGACGGCGGGCAACAGCATCGGCAGGAACGCCATGGCCGTCCCTCCAGCTCTTACCTTACCATC
GACCTCACAGACGACACAGAGGACACACATGGGACGCCCCAGAGCAGCAGTACCCCTACGCCCGCTAGCCAG
GACAGCCAGCAGGGGGGCGATGGAGTCCCCGCAGGTGGAGGCAGACAGTGGAGATGGAGACAGTTCAGAGTATCAG
GATGGGAAGGAGTTTGGAAATAGGGGACCTCGTGTGGGGAAAGATCAAGGGCTTCTCCTGGTGGCCGCCATGGTG
GTGTCTTGGAAGGCCACCTCCAAGCGACAGGCTATGTCTGGCATGCGGTGGGTCCAGTGGTTTGGCGATGGCAAG
TTCTCCGAGGTCTCTGCAGACAACTGGTGGCACTGGGGCTGTTTCAGCCAGCACTTTAATTTGGCCACCTTCAAT
AAGCTCGTCTCCTATCGAAAAGCCATGTACCATGCTCTGGAGAAAGCTAGGGTGCAGAGTGGCAAGACCTTCCCC
AGCAGCCCTGGAGACTCATTGGAGGACCAGCTGAAGCCCATGTTGGAGTGGGCCACGGGGGCTTCAAGCCCCACT
GGGATCGAGGGCCTCAAACCCAACAACACGCAACCAGTGGTTAATAAGTCAAGGTGCGTCTGTCAGGCAGTAGG
AAATTAGAATCAAGGAAATACGAGAACAAGACTCGAAGACGCACAGCTGACGACTCAGCCACCTCTGACTACTGC
CCCGCACCCAAGCGCCTCAAGACAAATTGCTATAACAACGGCAAAGACCGAGGGGATGAAGATCAGAGCCGAGAA
CAAATGGCTTCAGATGTTGCCAACAACAAGAGCAGCCTGGAAGATGGCTGTTTGTCTGTGGCAGGAAAAACCC
GTGTCTTCCACCCTCTCTTTGAGGGGGGGCTCTGTGACATGCGGGGATCGCTTCTTGGAGTGTTTTACATG
TATGATGACGATGGCTATCAGTCTTACTGCACTGTGTGCTGCGAGGGCCGAGAGCTGCTGCTTTCAGCAACACG
AGCTGCTGCCGGTGTCTTGTGTGGAGTGCCTGGAGGTGCTGGTGGGCACAGGCACAGCGCCGAGGCCAAGCTT
CAGGAGCCCTGGAGCTGTTACATGTGTCTCCCGCAGCGCTGTCTATGGCGTCTGCGGCGCCGGAAGGACTGGAAC
GTGCGCTGCAGGCCTTCTTACCAGTGACACGGGGCTTGAATATGAAGCCCCAAGCTGTACCCTGCCATTCCC
GCAGCCCGAAGGCGGCCCATTCGAGTCTGTCTATTGTTTATGGCATCGCGACAGGCTACCTAGTCTCAAAGAG
TTGGGCATAAAGGTAGGAAAGTACGTGCTTCTGAAGTGTGTGAGGAGTCCATTGCTGTTGGAACCGTGAAGCAC
GAGGGGAATATCAAATACGTGAACGACGTGAGGAACATCACAAAGAAAAATATTGAAGAATGGGGCCCATTTGAC
TTGGTGATTGGCGGAAGCCCATGCAACGATCTCTCAAATGTGAATCCAGCCAGGAAAGGCCTGTATGAGGGTACA
GGCCGGCTCTTCTTGAATTTTACCACCTGCTGAATTACTCACGCCCAAGGAGGGTGATGACCGGCCGCTTCTTC
TGGATGTTTGAGAATGTTGTAGCCATGAAGGTTGGCGACAAGAGGGACATCTCACGGTTCCTGGAGTGTAATCCA
GTGATGATTGATGCCATCAAAGTTTCTGTGCTCACAGGGGCCGATACTTCTGGGGCAACCTACCCGGGATGAAC
AGGCCCCGTGATAGCATCAAAGAATGATAAACTCGAGCTGCAGGACTGCTTGAATACAATAGGATAGCCAAGTTA
AAGAAAGTACAGACAATAACCACCAAGTCAAGTCAAGTCAAAACAGGGGAAAAACCAACTTTTCCCTGTTGTATG
AATGGCAAAGAAGATGTTTTTGTGGTGCAGTGAAGTCAAGAGGATCTTTGGCTTCTCTGTGCACTACACAGACGTG
TCCAACATGGGCCGTGGTGCCCGCCAGAAGCTGCTGGGAAGGTCTTGAGCGTGCTGTCTATCCGACACCTCTTC
GCCCCCTCTGAAGGACTACTTTGCTATGTGAATAGTTCCAGCCAGGCCCAAGCCACTGGGGTGTGTGGCAGAGCC
AGGACCCAGGAGGTGTGATTCTGAAGGCATCCCCAGGCCCTGCTCTTCTCAGCTGTGTGGGTCTATACCGTGTA
CCTCAGTTCCCTCTTGTCTAGTGGGGGAGAGCCACCTGACTCTTGCAGGGGTAGCCTGAGGTGCCGCTCCTTG
TGCACAAATCAGACCTGGCTGCTTGGAGCAGCCTAACACGGTGCTCATTTTTTCTTCTCTTAAACTTTAAACT
TGAAGTAGGTAGCAACGTGGCTTTTTTTTTTCCCTTCTGGGTCTACCACTCAGAGAAACAATGGCTAAGATAC
CAAAACACAGTGCCGACAGCTCTCCAATACTCAGGTTAATGCTGAAAAATCATCCAAGACAGTTATTGCAAGAG
TTTAATTTTTGAAACTGGCTACTGCTCTGTGTTTACAGACGTGTGAGTGTAGGATGTAGCTACAGGACATT
TTTAAGGGCCCAGGATCGTTTTTTCCAGGGCAAGCAGAAGAGAAAAATGTTGTATATGTCTTTTACCCGGCACAT
TCCCTTGCCTAAATACAAGGGCTGGAGTCTGCACGGGACCTATTAGAGTATTTTCCACAATGATGATGATTTCA
GCAGGGATGACGTATCATCATCATTCAGGGCTATTTTTTCCCCACAAACCAAGGGCAGGGGCCACTCTTAGCT

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FIGURE 5727B

AAATCCCTCCCCGTGACTGCAATAGAACCCTCTGGGGAGCTCAGGAAGGGGTGTGCTGAGTTCTATAATATAAGC
TGCCATATATTTTGTAGACAAGTATGGCTCCTCCATATCTCCCTCTTCCCTAGGAGAGGAGTGTGAAGCAAGGAG
CTTAGATAAGACACCCCTCAAACCCATTCCCTCTCCAGGAGACCTACCTCCACAGGCACAGGTCCCCAGATGA
GAAGTCTGCTACCCTCATTCTCATCTTTTTACTAAACTCAGAGGCAGTGACAGCAGTCAGGGACAGACATACAT
TTCTCATACCTTCCCCACATCTGAGAGATGACAGGGAAAAC TGCAAAGCTCGGTGCTCCCTTTGGAGATTTTTTA
ATCCTTTTTTATTCCATAAGAAGTCGTTTTTAGGGAGAACGGGAATTCAGACAAGCTGCATTTAGAAATGCTGT
CATAATGGTTTTTAACACCTTTTACTCTTCTTACTGGTGCTATTTTGTAGAATAAGGAACAACGTTGACAAGTTT
TGTGGGGCTTTTTATACACTTTTTAAAATCTCAAACCTCTATTTTTATGTTTAACGTTTTCATTAAATTTTTTT
TGTAAC TGGAGCCACGACGTAACAAATATGGGGAAAAA ACTGTGCCTTGTTTCAACAGTTTTTGCTAATTTTTAG
GCTGAAAGATGACGGATGCCTAGAGTTTACCTTATGTTTAATTAAATCAGTATTTGTCT

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FIGURE 5728

ACGAGACGAAGACGGAACCGGAGCCGGTTGCGGGCAGTGGACGCGGTTCTGCCGAGAGCCGAAGATGGCAGTGAA
CGTATACTCAACGTCAGTGACCAGTGATAACCTAAGTCGACATGACATGCTGGCCTGGATCAATGAGTCTCTGCA
GTTGAATCTGACAAAAGATCGAACAGTTGTGCTCAGGGGCTGCGTATTGTCAGTTTATGGACATGCTGTTCCCTGG
CTCCATTGCCTTGAAGAAAAGTGAAATTCCAAGCTAAGCTAGAACACGAGTACATCCAGAACTTCAAAATACTACA
AGCAGGTTTTAAGAGAATGGGTGTTGACAAAATAATTCTGTGGACAAATTAGTAAAAGGAAAGTTTCAGGACAA
TTTTGAATTCGTTTCAGTGGTTCAAGAAGTTTTTCGATGCAAACCTATGATGGAAAAGACTATGACCCTGTGGCTGC
CAGACAAGGTCAAGAAAAGTGCAGTGGCTCCTTCCCTTGTTGCTCCAGCTCTGAATAAACCGAAGAAACCTCTCAC
TTCTAGCAGTGCAGCTCCCCAGAGGCCCATCTCAACACAGAGAACCGCTGCGGCTCCTAAGGCTGGCCCTGGTGT
GGTGCGAAAAGAACCTGGTGTGGGCAACGGAGACGACGAGGCAGCTGAGTTGATGCAGCAGGTCAACGTATTGAA
ACTTACTGTTGAAGACTTGGAGAAAGAGAGGGATTTCTACTTCGGAAGCTACGGAACATTGAATTGATTGCCA
GGAGAACGAGGGGGGAAAACGACCCTGTATTGCAGAGGATTGTAGACATTCTGTATGCCACAGATGAAGGCTTTGT
GATACCTGATGAAGGGGGGCCACAGGAGGAGCAAGAAGAGTATTAACAGCCTGGACCAGCAGAGCAACATCGGAA
TTCTTCACTCCAAATCATGTGCTTAACTGTAAAATACTCCCTTTTGTATCCTTAGAGGACTCAGTGGTTCTTTT
TCATAAGCAAAAAGTACCTCTTCTTAAAGTGCACCTTTCAGACGTTTCACTCCTTTTCCAATAAGTTTGAGTTAG
GAGCTTTTACCTTGTAGCAGAGCAGTATTAACACCTAGTTGGTTTACCTGGAAAACAGAGAGGCTGACCGTGGGG
CTCACCATGCGGATGCGGGTCACACTGAATGCTGGAGAGATGTTATGTAATATGCTGAGGTGGCGACCTCAGTGG
AGAAATGTAAAGACTGAATTGAATTTTAAAGCTAATGTGAAATCAGAGAATGTTGTAATAAGTAAATGCCTTAAGA
GTATTTAAAATATGCTTCCACATTTCAAAATATAAAATGTAACATGACAAGAGATTTTGCCTTTGACATTGTGTC
TGGGAAGGAAGGGCCAGACCTTGGAACCTTTGGAACCTGCTGTCAACAGGTCTTACAGGGCTGCTTGAACCTCA
TAGGCCTAGGCTTTGGTCTAAAAGGAACATTTAAAAGTTGCCCTGTAAAGTTATTTGGTGTCAATTGACCAATTG
CATCCCAGCTAAAAAGCAAGAGGCATCGTTGCCTGGATAATAGAGGATGTGTTTCAGCCCTGAGATGTTACAGTT
GAAGAGCTTGGTTTTTCATTGAGCATTTCTCTATTTTTCCAGTTATCCCCGAAATTTCTATGTATTATATTTTTTG
GGGAAGTGAGGTGTGCCCAGTTTTTAAATCTAACAACCTACTTTTGGGGACTTGCCACATCTCTGGGATTTGAAT
GGGGATTGTATCCCATTTTACTGTCTTTTAGGTTTACATTTACCACGTTTCTCTCTGCTCCCCCTTGCCCACT
GGGGACTCCTCTTTGGCTCCTTGAAGTTTGCTGCTTAGAGTTGGAAGTGCAGCAGGCAGGTGATCATGCTGCAAG
TTCTTTCTGGACCTCTGGCAAAGGGAGTGGTCAGTGAAGGCCATCGTTACCTTGGGATCTGCCAGGCTGGGGTGT
TTTCGGTATCTGCTGTTTACAGCTCTCCACTGTAATCCGAATACTTTGCCAGTGCACCTAATCTCTTTGGAGATAA
AATTCATTAGTGTGTTACTAAATGTTAATTTCTTTTGGGAAAATACAGTACCGTGTCTGAATTAATTATTAAT
ATTTAAAATACTTCATTCTTAACCTCTCCCTCATTGTGCTTTGCCACAGCCTATTCAGTTCCTTTGTTTGGCAGG
ATTCTGCAAAATGTGCTCACCCTACTGAGATTGTTACAGCCCTGATGTATTGATTGATTGTTTCTGGTG
GTAGCTTGTCTGAAATGTGTGTAGAAAGCAAGTATTTTATGATAAAAATGTTGTGTAGTGCATGCTCTGTGTGG
AATTCAGAGGAAAACCCAGATTCAAGTATTAACAATGCCAAAAATGCAAGTAAGTACCAATTGTTCAAATGACA
GTGGTGCTATTTCTCTTTTGTGGCCTTTTAGACTTTTGTGCCCTAAAATTCCATTTTATTGGGAACCCATTTTC
CACCTGGTCTTTCTTGACAGGGTTTTTTTTCTACTTTAAACAGTTTCTAAATAAAATCTGTATTTCAAGAG

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FIGURE 5729

AGAGAGGAGCGGGCCGAGGACTCCAGCGTGCCCAAGGTCTGGCATCCTGCACCTTGCTGCCCTCTGACACCTGGGAA
GATGGCCGGCCCGTGGACCTTCACCCCTTCTCTGTGGTTTGCTGGCAGCCACCTTGATCCAAGCCACCCTCAGTCC
CACTGCAGTTCTCATCTCGGCCCCAAAAGTCATCAAAGAAAAGCTGACACAGGAGCTGAAGGACCACAACGCCAC
CAGCATCCTGCAGCAGCTGCCGCTGCTCAGTGCCATGCGGGAAAAGCCAGCCGGAGGCATCCCTGTGCTGGGCAG
CCTGGTGAACACCGTCTGAAAGCACGTCACTGGCTGAAGGTCACTACAGCTAACATCCTCCAGCTGCAGGTGAA
GCCCTCGGCCAATGACCAGGAGCTGCTAGTCAAGATCCCCCTGGACATGGTGGCTGGATTCAACACGCCCTGGT
CAAGACCATCGTGGAGTTCCACATGACGACTGAGGCCCAAGCCACCATCCGCAITGGACACCAGTGCAAGTGGCCC
CACCCGCTGGTCTCAGTGACTGTGCCACCAGCCATGGGAGCCTGCGCATCCAATGCTGCATAAGCTCTCCTT
CCTGGTGAACGCCTTAGCTAAGCAGGTCACTGAACCTCCTAGTGCCATCCCTGCCCAATCTAGTGAAAAACCAGCT
GTGTCCCGTGATCGAGGCTTCCTTCAATGGCATGTATGCAGACCTCCTGCAGCTGGTGAAGGTGCCCATTTCCCT
CAGCATTGACCGTCTGGAGTTTGACCTTCTGTATCCTGCCATCAAGGGTGACACCATTACAGCTCTACCTGGGGGC
CAAGTTGTTGGACTCACAGGGAAAGGTGACCAAGTGGTTCAATAACTCTGCAGCTTCCCTGACAATGCCACCCT
GGACAACATCCCGTTCAGCCTCATCGTGAGTCAGGACGTGGTGAAAGCTGCAGTGGCTGCTGTGCTCTCTCCAGA
AGAATTCATGGTCCTGTTGGACTCTGTGCTTCTTGAGAGTGCCCATCGGCTGAAGTCAAGCATCGGGCTGATCAA
TGAAAAGGCTGCAGATAAGCTGGGATCTACCCAGATCGTGAAGATCCTAACTCAGGACACTCCCGAGTTTTTTAT
AGACCAAGCCATGCCAAGGTGGCCCAACTGATCGTGCTGGAAGTGTTTTCCCTCCAGTGAAGCCCTCCGCCCTT
GTTACCCCTGGGCATCGAAGCCAGCTCGGAAGCTCAGTTTTACACCAAAGGTGACCAACTTATACTCAACTTGAA
TAACATCAGCTCTGATCGGATCCAGCTGATGAACTCTGGGATTGGCTGGTTCCAACCTGATGTTCTGAAAAACAT
CATCACTGAGATCATCCACTCCATCCTGCTGCCGAACCAGAATGGCAAATTAAGATCTGGGGTCCCAGTGTCATT
GGTGAAGGCCTTGGGATTCGAGGCAGCTGAGTCTCACTGAGCAAGGATGCCCTTGTGCTTACTCCAGCCTCCTT
GTGGAACCCACCTCTCCTGTCTCCCAGTGAAGACTTGGATGGCAGCCATCAGGGAAGGCTGGGTCCCAGCTGGG
AGTATGGGTGTGAGCTCTATAGACCATCCCTCTCTGCAATCAATAAACACTTGCCTGTGAAAAAAAAAAAAAAAA
AAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5730

MAGPWTFLLCGLLAATLIQATLSPTAVLIILGPKVIEKLTQELKDNATSILQQLPLLSAMREKPAGGIPVLGS
LVNTVLKHVIWLKVITANILQLQVKPSANDQELLVKIPLDMVAGFNTPLVKTIVEFHMTTEAQATIRMDTSASGP
TRLVLSDCATSHGSLRIQLLHKLSFLVNALAKQVMNLLVPSLPNLVKNQLCPVIEASFNGMYADLLQLVKVPISL
SIDRLEFDLLYPAIKGDITQLYLGAKL LDSQGKVTWFNNSAASLTMP TLDNIPFSLIVSQDVVKA AVA VLSPE
EFMVLLDSVLPESAHLKSSIGLINEKAADKLGSTQIVKILTQDTPEFFIDQGHAKVAQLIVLEVFPSSSEALRPL
FTLGIEASSEAQFYTKGDLILNLNNISSDRIQLMNSGIGWFQPDVLKNIITEIIHSILLPNQNGKLRS GVPVSL
VKALGFEEAAESSLSKDALVLT PASLWKPTSPVSQ

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FIGURE 5731

CCCTGCTGGGGCATCCCCGGCCTGTGATGCTCCCCGCTCTCCCCAGAACCGCTGTTGTCCCGGATGGGCAGCCTGC
GGGCTCCCGTGGACGAGGACCGCCTGTCCCCGCTGGTGGCGGCCGACTCGCTCCTGGAGCATGTGCGGGAGGACT
TCTCCGGCCTCCTCCCTGAGGAGTTCATCAGCCTTTCCCCACCCACGAGGCCCTCGACTACCATTTCGGCCTCG
AGGAGGGCGAGGGCATCAGAGACCTCTTCGACTGTGACTTTGGGGACCTCACCCCCCTGGATTTCTGACAGGGCT
TGGAGGGACGAGGGTTTCCAGAGATGCTCACCTTGTCTCTGCAGCCCTGGAGCCCCCTGTCCCTGGCCGTCTCTCC
CAGCCTGTTTGGAAACATTTAATTTATACCCCTCTCCTCTGTCTCCAGAAGCTTCTAGCTCTGGGGTCTGGCTAC
CGCTAGGAGGCTGAGCAAGCCAGGAAGGGAAGGAGTCTGTGTGGTGTGTATGTGCATGCAGCCTACACCCACACG
TGTGTACCGGGGGTGAATGTGTGTGAGCATGTGTGTGTGCATGTACCGGGGAATGAAGGTGAACATACACCTCTG
TGTGTGCACTGCAGACACGCCCCAGTGTGTCCACATGTGTGTGCATGAGTCCATGTGTGCGCGTGGGGGGGCTCT
AACTGCACTTTTCGGCCCTTTTGTCTCTGGGGGTCCCACAAGGCCAGGGCAGTGCCTGCTCCCAGAATCTGGTGTCT
CTGACCAGGCCAGGTGGGGAGGCTTTGGCTGGCTGGGCGTGTAGGACGGTGAGAGCACTTCTGTCTTAAAGGTTT
TTTCTGATTGAAGCTTTAATGGAGCGTTATTTATTTATCGAGGCCTCTTTGGTGAGCCTGGGGAATCAGCAAAGG
GGAGGAGGGGTGTGGGGTTGATACCCCAACTCCCTCTACCCTTGAGCAAGGGCAGGGGTCCCTGAGCTGTCTTC
TGCCCCATACTGAAGGAACTGAGGCCTGGGTGATTTATTTATTGGGAAAGTGAGGGAGGGAGACAGACTGACTGA
CAGCCATGGGTGGTCAGATGGTGGGGTGGGCCCTCTCCAGGGGGCCAGTTCAGGGCCCCAGCTGCCCCCAGGAT
GGATATGAGATGGGAGAGGTGAGTGGGGGACCTTCACTGATGTGGGCAGGAGGGGTGGTGAAGGCCTCCCCCAGC
CCAGACCCTGTGGTCCCTCCTGCAGTGTCTGAAGCGCCTGCCTCCCCACTGCTCTGCCCCACCCTCCAATCTGCA
CTTTGATTTGCTTCCTAACAGCTCTGTTCCCTCCTGCTTTGGTTTTAATAAATATTTTGATGACGTTTGGGCCGG
GTTTTGGGACTCTGTTGGGAACATTTGGGGCGGGAGAGGCCAAGGTTGCTGGGGAAATGCCATTCTCCACTTC
CCTTCTCCCTGTCCGTGCCCGATTTGATTTGAGCCTCATAACTCGAAGAAAGGTCAGCTTCCTCGCTGTTTTGGT
CCTAACTCAAAAGCAGATCCAGTAAAGGTTTTTGTGT

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FIGURE 5732

MALAGAPAGGPCAPALEALLGAGALRLLDSSQIVIIISAAQDASAPPAPTGPAAAPAGPCDPDLLLLFATPQAPRPT
PSAPRPALGRPPVKRRLDLETDHQYLAESSGPARGRGRHPGKGVKSPGEKSRYETSLNLTTRFLELLSHSADGV
VDLNWAAEVLKVQKRRIYDITNVLEGIQLIAKKSKNHIQWLGSHTTVGVGGRLEGLTQDLRQLQESEQQLDHLMN
ICTTQLRLLEDTSQRLAYVTCQDLRSIADPAEQMVMVIKAPPETQLQAVDSSENFQISLKSQGPIDVFLCPE
ETVGGISPGKTPSQEVTSEENRATDSATIVSPPPSSPPSSLTTDPSQSLLSLEQEPLLSRMGSLRAPVDEDRLS
PLVAADSLLEHVREDFSGLLPEEFISLSPHEALDYHFGLEEGERDLDFDCDFGDLTPLDF

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FIGURE 5733

CGCGCGAGCGGGCGCCAGCTCGGGGCAGCGGAACCCAGAGAAGCTGAGGGGGCGGTAGCGGCGGCGACGGCGACGA
CGACGACTCCCGCGCGTGTGCCCAGCCTCTTCCCGCCGAGCCGCCCTTTTCCTCCCTCCCTTACGTCCCCGAGT
GCGGCAGTACCGCCTCCTTCCCAGCCGCGCGGCTTCCTCCAGACCTCTCGGCGCGGGTGAGCCCTATTCCCAGAG
GCAGGTGGTGTGTGACCTGTAAACCCAAAGGAGGAAACAGCTGGCTAAGCTCATCATTGTTACTGGTGGGCACCAT
GTCCTTGAAGCTTCAGGCAAGCAATGTAACCAACAAGAATGACCCCAAGTCCATCAACTCTCGAGTCTTCATTGG
AAACCTCAACACAGCTCTGGTGAAGAAATCAGATGTGGAGACCATCTTCTCTAAGTATGGCCGTGTGGCCGGCTG
TTCTGTGCACAAGGGCTATGCCTTTGTTTCAGTACTCCAATGAGCGCCATGCCCGGGCAGCTGTGTGGGAGAGAA
TGGGCGGGTGTGTGGCCGGGCAGACCCTGGACATCAACATGGCTGGAGAGCCTAAGCCTGACAGACCCAAGGGGCT
AAAGAGAGCAGCATCTGCCATATACAGTGGCTACATCTTTGACTATGATTACTACCGGGACGACTTCTACGACAG
GCTCTTCGACTACCGGGGCCGTCTGTGCCCCGTGCCAGTGGCCAGGGCGGTCCCTGTGAAGCGACCCCGGGTCAC
AGTCCCTTTGGTCCGGCGTGTCAAACTAACGTACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCAACCACCAG
CTCAGCCAAGATCAAGTTAAAGAGCAGTGAGCTGCAGGCCATCAAGACGGAGCTGACACAGATCAAGTCCAATAT
CGATGCCCTGCTGAGCCGCTTGGAGCAGATCGCTGCGGAGCAAAAGGCCAATCCAGATGGCAAGAAGAAGGGTGA
TGGAGGTGGCGCCGGCGGCGGCGGCGGTGGTGGTGGCAGCGGTGGCGGTGGCAGTGGTGGTGGCGGTGGCGGTGG
CAGCAGCCGGCCACCAGCCCCCAAGAGAACACAACCTTCTGAGGCAGGCCTGCCCCAGGGGGAAGCACGGACCCG
AGACGACGGCGATGAGGAAGGGCTCCTGACACACAGCGAGGAAGAGCTGGAACACAGCCAGGACACAGACGCGGA
TGATGGGGCCTTGCAAGTAAGCAGCCTGACAGGAGCAATGGCCACCAGCAGGTGAAGGGCATCGCTGCCCCAGGCC
TCAAGCCGGGCACCCAACCCTGGATGCCACCCCCCAGCGGTACCAGAGGAAAGCTGGCAGCAGGCGCCTCCTCC
CCCAACGCATCCCAGCCAGTGCCATGTCTCTGCAGGTGGAGTTACTGGCCTACTCCTTCCCCATGAGCCCTCCC
TGTCTGCACTGCCCAGGCCAGAGGGTAGAGCACAGGGGTTTCCCCATACTACCTCCCCCTCCCCAGGACACTCCCA
GGCTTGGGTTTTTTCTATAGGTTTGGCGGGGGGCCACAGGGAGGGGACCCTGACAATAAAGAGATTGGATCCCAA
AAAAAAAAAAAAAA

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FIGURE 5734

CGTTGAAGACATTGTCTGGGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCG
TCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAGCCATGCTCTGGGGACGAGATGATTTTTGATCCTACTA
TGAGCAAGAAGAAAAAGAAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCC
AGCCTTCAGAAACAAAAGAAGTGGAGCCAGAGCCAAGTGAAGGACAAGGATTTGGAAGCTGATGAAGAGGACACTA
GGAAAAAAGATGCTTCTGATGATCTAGATGACTTGAACCTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAA
AGATATTTGATATTGATGAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTG
AACCAGAGGATGACCTTGACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGATGTTAAGTCCAGATGAGG
ATGAAATACTAGAGAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAGATGATGGTATCTCATTCAAGTAATC
AGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCA
TGAGGGAAAAGAAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAG
TAGGAACCAAGAAAACTTCTTTTGTCAACTTTACAGATATCTGTAACTATTACATCGTCAGCCCAAACATCTCC
TTGCATTTTGTGGCTGAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGAT
TCCAACAGAAACAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACCTTGTCACACATGCCGATCAC
CGGACACAATCCTGCAGAAGGACATACGACTCTATTTTCTACAGTGCGAACTTGTCATTCTAGATGTTCTGTTG
CCAGTATCAAAACCGGCTTCCAGGCTGTACGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTAAATTTGCTA
ATCACTGATTTTGCAAAGCTTGTGTGGAGATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCGTTGTAT
TAAAAACAAGATAAAAAAGCTGCCAAGATTTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTC
AAGCTGTTGACATACTCATTGCCTACTTTAACACCTGTGAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTT
AAAATCGTTCATAGACTTCTGTAAAATGCAAGATAAAATTAAAGTTATTATAACAGTGATTCTTTCA

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FIGURE 5735

MSGDEMIFDPTMSKKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEADEEDTRKKDASDDLDDLNF
FNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQEPTPEDDLDIMLGNNKKKKKKNVKFPDEDEILEKDEALEDED
NKKDDGISFSNQTFPAWAGSERDYTYEELLNRVFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTKKTSFVNFTDI
CKLLHRQPKHLLAFLLAELGTSGSIDGNNQLVIKGRFQOKQIENVLRRYIKEYVTCHTCRSPDTILQKDIRLYFL
QCETCHSRCSVASIKTGFQAVTGKRAQLRAKAN

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FIGURE 5736

CTGAGGCCCCAGCCCCCTTCGCCCCGTTTCCATCACGAGTGCCGCCAGCATGTCTGACAAACTGCCCTACAAAGTCG
CCGACATCGGCCTGGCTGCCTGGGGACGCAAGGCCCTGGACATTGCTGAGAACGAGATGCCGGGCCTGATGCGTA
TGCGGGAGCGGTACTCGGCCCTCCAAGCCACTGAAGGGCGCCCGCATCGCTGGCTGCCATGACCGTGGAGA
CGGCCGTCTCATTGAGACCCCTCGTCACCCCTGGGTGCTGAGGTGCAGTGGTCCAGCTGCAACATCTTCTCCACCC
AGGACCATGCGGCGGCTGCCATTGCCAAGGCTGGCATTCCGGTGTATGCCTGGAAGGGCGAAACGGACGAGGAGT
ACCTGTGGTGCATTGAGCAGACCCCTGTACTTCAAGGACGGGCCCCCTCAACATGATTCTGGACGACGGGGCGACC
TCACCAACCTCATCCACACCAAGTACCCGCAGCTTCTGCCAGGCATCCGAGGCATCTCTGAGGAGACCACGACTG
GGGTCCACAACCTCTACAAGATGATGGCCAATGGGATCCTCAAGGTGCCTGCCATCAATGTCAATGACTCCGTCA
CCAAGAGCAAGTTTGACAACCTCTATGGCTGCCGGGAGTCCCTCATAGATGGCATCAAGCGGGCCACAGATGTGA
TGATTGCCGGCAAGGTAGCGGTGGTAGCAGGCTATGGTGTATGTGGGCAAGGGCTGTGCCAGGCCCTGCGGGGTT
TCGGAGCCCCGCGTCATCATCACCGAGATTGACCCCATCAACGCACTGCAGGCTGCCATGGAGGGCTATGAGGTGA
CCACCATGGATGAGGCCTGTGAGGAGGGCAACATCTTTGTACCACCACAGGCTGTATTGACATCATCCTTGGCC
GGCACTTTGAGCAGATGAAGGATGATGCCATTGTGTGTAACATTGGACACTTTGACGTGGAGATCGATGTCAAGT
GGCTCAACGAGAACGCCGTGGAGAAGGTGAACATCAAGCCGCAGGTGGACCGGTATCGGTTGAAGAATGGGCGCC
GCATCATCCTGCTGGCCGAGGGTCGGCTGGTCAACCTGGGTTGTGCCATGGGCCACCCAGCTTTCGTGATGAGTA
ACTCCTTCACCAACCAGGTGATGGCGCAGATCGAGCTGTGGACCCATCCAGACAAGTACCCCGTTGGGGTTTATT
TCCTGCCCCAAGAAGCTGGATGAGGCAGTGGCTGAAGCCCACCTGGGCAAGCTGAATGTGAAGTTGACCAAGCTAA
CTGAGAAGCAAGCCCAGTACCTGGGCATGTCCTGTGATGGCCCCCTTCAAGCCGGATCACTACCGCTACTGAGAGC
CAGGTCTGCGTTTACCCCTCCAGCTGCTGTCTTGGCCAGGCCCCACCTCTCCTCCCTAAGAGCTAATGGCACCA
ACTTTGTGACTGGTTTGTGTCAGTGTCCCCATCGACTCTCTGGGGCTGATCACTTAGTTTTTGGCCTCTGCTGCAG
CCGTCATACTGTTCCAAATGTGGCAGCGGGAACAGAGTACCCTCTTCAAGCCCCGGTCATGATGGAGGTCCCAGC
CACAGGGAACCATGAGCTCAGTGGTCTTGGAACAGCTCACTAAGTCAGTCCTTCCTTAGCCTGGAAGCCAGTAGT
GGAGTCACAAAGCCCCATGTGTTTTGCCATCTAGGCCTTCACCTGGTCTGTGGACTTATACCTGTGTGCTTGGTTT
ACAGGTCCAGTGGTTCTTCAGCCCATGACAGATGAGAAGGGGCTATATTGAAGGGCAAAGAGGAAGTGTGTTT
AATTTTCTGAGAGCCTGGCTTAGTGCTGGGCCTTCTCTTAAACCTCATTACAATGAGGTTAGTACTTTTAGTCC
CTGTTTTACAGGGGTTAGAATAGACTGTTAAGGGGCAACTGAGAAAGAACAGAGAAGTGACAGCTAGGGGTTGAG
AGGGGCCAGAAAAACATGAATGCAGGCAGATTTCTGTGAAATCTGCCACCCTTTATAACCAGATGGTTCCTTTCA
CAACCCTGGGTCAAAAAGAGAATAATTTGGCCTATAATGTTAAAAGAAAGCAGGAAGGTGGGTAAATAAAAATCT
TGGTGCTGG

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FIGURE 5737

MSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMRERYASASKPLKGARIAGCLHMTVETAVLIETLVTLGAEVQ
WSSCNIFSTQDHAAAAIAKAGIPVYAWKGETDEEYLWCIEQTLYFKDGPLNMILDDGGDLTNLIHTKYPQLLPGI
RGI SEETTTGVHNLYKMMANGILKVPAINVNSVTKSKFDNLYGCRESLIDGIKRATDVMIAQKVAVVAGYGDVG
KGCAQALRGFGARVITEIDPINALQAAMEGYEVTTMDEACQEGNIFVTTTGCIDIILGRHFEQMKDDAIVCNIG
HFDVEIDVKWLNENAVEKVNIKPQVDYRLKNGRRIILLAEGRLVNLGCAMGHPSFVMSNSFTNQVMAQIELWTH
PDKYPVGVHFLPKKLDEAVAEHLGKLNVKLTKLTEKQAQYLGMSCDGPFKPDHYRY

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FIGURE 5738

GGGAGAACCGTTTCGCGGAGGAAAGGCGAACTAGTGTTGGGATGGCCACCAACTGGGGGAGCCTCTTGACAGGATAA
ACAGCAGCTAGAGGAGCTGGCACGGCAGGCCGTGGACCGGGCCCTGGCTGAGGGAGTATTGCTGAGGACCTCACA
GGAGCCCACCTTCTTCGGAGGTGGTGAGCTATGCCCCATTACGCTCTTCCCCTCACTGGTCCCCAGTGCCCTGCT
GGAGCAAGCCTATGCTGTGCAGATGGACTTCAACCTGCTAGTGGAATGCTGTCAGCCAGAACGCTGCCTTCTTGA
GCAAACTCTTTCCAGCACCATCAAACAGGATGACTTTACCGCTCGTCTCTTTGACATCCACAAGCAAGTCCTAAA
AGAGGGCATTGCCCAGACTGTGTTTCTGGGCCTGAATCGCTCAGACTACATGTTCCAGCGCAGCGCAGATGGCTC
CCCAGCCCTGAAAACAGATCGAAATCAACACCATCTCTGCCAGCTTTGGGGGCCTGGCCTCCCGGACCCAGCTGT
GCACCGACATGTTCTCAGTGCTCTGAGTAAGACCAAAGAAGCTGGCAAGATCCTCTCTAATAATCCAGCAAGGG
ACTGGCCCTGGGAATTGCCAAAGCCTGGGAGCTCTACGGCTCACCCAATGCTCTGGTGCTACTGATTGCTCAAGA
GAAGGAAAAGAAACATATTTGACCAGCGTGCCATAGAGAATGAGCTACTGGCCAGGAACATCCATGTGATCCGACG
AACATTTGAAGATATCTCTGAAAAGGGGTCTCTGGACCAAGACCGAAGGCTGTTTGTGGATGGCCAGGAAATTGC
TGTGGTTTACTTCCGGGATGGCTACATGCCTCGTACGTCTACAGAATTGGGAAGCACGTCTACTGCTGGA
GAGGTCACATGCTGCCAAGTGCCAGACATTGCCACCCAGCTGGCTGGGACTAAGAAGGTGCAGCAGGAGCTAAG
CAGGCCGGGCATGCTGGAGATGTTGCTCCCTGGCCAGCCTGAGGCTGTGGCCCGCCTCCGCGCCACCTTTGCTGG
CCTCTACTCACTGGATGTGGGTGAAGAAGGGGACCAGGCCATCGCCGAGGCCCTTGCTGCCCTAGCCGGTTTGT
GCTAAAGCCCCAGAGAGAGGGGTGGAGGTAAACAACCTATATGGGGAGGAAATGGTACAGGCCCTGAAACAGCTGAA
GGACAGTGAGGAGAGGGCCTCCTACATCCTCATGGAGAAGATCGAACCTGAGCCTTTTGAGAATTGCCTGCTACG
GCCTGGCAGCCCTGCCCCAGTGGTCCAGTGCATTTTCAAGCTGGGCATCTTTGGGGTCTATGTCAGGCAGGAAAA
GACACTCGTGATGAACAAGCACGTGGGGCATCTACTTCGAACCAAAGCCATCGAGCATGCAGATGGTGGTGTGGC
AGCGGGAGTGGCAGTCTTGACAACCCATACCCTGTGTGAGGGGCACAACCAGGCCACGGGACCTTCTATCCTCTG
TATTTGTCATTCTCTCCTAGCCCTCCTGAGGGGTATCCTCCTAAAGACCTCCAAAGTTTTTATGGAAGGGTAAA
TACTGGTACCTTCCCCCAGCTTTCCATCTGAGGACCAGAAAAGTTGTGTCTCCCTTAGATGAGATCTAGACGCCC
CCAAATCCTTGAGATGTGGGTATAGCTCAGGGTAAGCTGCTCTGAGGTAAAGGTCCATGAACCTGCCCCACTCC
TGTCAGCCCTCATCAGCCTTTTTCAGCAGGTTCCAGTGCTGACTTGGGATAGGACTGAGTGGTAGGAGGAGGGG
GAGTGGAGGGGCATAGCCTTTCCCTAATTCTGCCTTAAATAAAACTGCATTGCTGT

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FIGURE 5739

MATNWGSLLODKQOLEELARQAVDRALAEGVLLRTSQEPTSSEVVSYAPFTLFP SLVPSALLEQAYAVQMDFNLL
VDAVSQNAAFLEQTLSSSTIKQDDFTARLFDIHKQVLKEGIAQT VFLGLNRS DYMFOR SADGSPALKQIEINTISA
SFGGLASRTPAVHRHVL SVLSKTKEAGKILSNNPSKGLALGIAKAWELYGSPNALVLLIAQEKERNIFDQRAIEN
ELLARNIHVIRRTFEDI SEKGS LDQDRRLFVDGQEIAVVYFRDGYMPRQYSLQNWEARLLERSHAAKCPDIATQ
LAGTKKVQOELSRPGMLEMLLP GQPEAVARLRATFAGLYSLDVGEEDQAI AEALAAPSRFVLKPQREGGNNLY
GEEMVQALKQLKDSEERASYILMEKIEPEPFENCLLRPGSPARVVQCISELGIFGVYVRQEKTLVMNKHVGHLLR
TKAIEHADGGVAAGVAVLDNPYPV

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FIGURE 5740

GGAAGAACCCGCAGCAGCTCCCAGGATGAACTGGTTGCAGTGGCTGCTGCTGCTGCGGGGGCGCTGAGAGGACAC
GAGCTCTATGCCTTTCCGGCTGCTCATCCCGCTCGGCCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCC
AGGTCCCGACGGCTCCGCGCCAGATCCCGCCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCACGCCTACGA
CAGCTACCTGGAGAATGCCCTTCCCTTCGATGAGCTGCGACCTCTCACCTGTGACGGGCACGACACCTGGGGCAG
TTTCTCTCTGACTCTAATTGATGCACTGGACACCTTGCTGATTTTGGGGAATGTCTCAGAATTCCAAAGAGTGGT
TGAAGTGCTCCAGGACAGCGTGGACTTTGATATTGATGTGAACGCCTCTGTGTTTGAAACAAACATTTCGAGTGGT
AGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGCTGGGGTGGAAGTAGAGGCTGGATGGCCCTGTTCCGG
GCCTCTCCTGAGAATGGCTGAGGAGGCGGCCCCGAAAACCTCCTCCCAGCCTTTCAGACCCCCACTGGCATGCCATA
TGGAACAGTGAACCTTACTTCATGGCGTGAAACCCAGGAGAGACCCCTGTACCTGTACGGCAGGGATTGGGACCTT
CATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGTGACCCGGTGTTTGAAGATGTGGCCAGAGTGGCTTTGAT
GCGCCTCTGGGAGAGCCGGTCAGATATCGGGCTGGTGGCAACCACATTGATGTGCTCACTGGCAAGTGGGTGGC
CCAGGACGCAGGCATCGGGGCTGGCGTGGACTCCTACTTTGAGTACTTGGTGAAAGGAGCCATCCTGCTTCAGGA
TAAGAAGCTCATGGCCATGTTCTAGAGTATAACAAAGCCATCCGGAACCTACACCCGCTTCGATGACTGGTACCT
GTGGGTTTCAGATGTACAAGGGGACTGTGTCCATGCCAGTCTTCCAGTCTTGGAGGCCTACTGGCCTGGTCTTCA
GAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCTCACTACTACACTGTATGGAAGCAGTTTGGGGG
GCTCCCGGAATTCTACAACATTCTCAGGGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAACT
TATTGAAAGCGCAATGTACCTCTACCGTGCCACGGGGGATCCCACCCTCCTAGAACTCGGAAGAGATGCTGTGGA
ATCCATTGAAAAAATCAGCAAGGTGGAGTGGGATTTGCAACAATCAAAGATCTGCGAGACCACAAGCTGGACAA
CCGCATGGAGTCGTTCTTCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAACCAACTTCATCCA
CAACAATGGGTCCACCTTCGACACGGTGATCACCCCTATGGGGAGTGATCCTGGGGGCTGGGGGGTACATCTT
CAACACAGAAGCTCACCCCATCGACCCTGCCGCCCTGCACTGCTGCCAGAGGCTGAAGGAAGAGCAGTGGGAGGT
GGAGGACTTGATGAGGGAATTCTACTCTCTCAAACGGTGCAGGTGAAATTTAGAAAAACACTGTTAGTTTCGGG
GCCATGGGAACCTCCAGCAAGGCCAGGAACACTCTTCTCACCAGAAAACCATGACCAGGCAAGGGAGAGGAAGCC
TGCCAAACAGAAGGTCCCACTTCTCAGCTGCCCCAGTCAGCCCTTCACCTCCAAGTTGGCATTACTGGGACAGGT
TTTCCTAGACTCCTCATAACCACTGGATAATTTTTTTATTTTTATTTTTTTGAGGCTAAACTATAATAAATTGCT
TTTGGCTATC

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FIGURE 5741

MPFRLLIPLGLLCALLPQHGHGAPGPDGSAPDPAHYRERVKAMFYHAYDSYLENAFPFDELRLPTCDGHDTWGSFS
LTLIDALDTLLIILGNVSEFQRVVEVLQDSVDFDIDVNASVFETNIRVVGGLLSAHLSSKKAGVEVEAGWPCSGPL
LRMAEEAARKLLPAFQTPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSLTGDPVFEDVARVALMRL
WESRSDIGLVGNHIDVLTGKWVAQDAGIGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDWYLWV
QMYKGTVSMPVVFQSLEAYWPGLQSLIGDIDNAMRTFLNYYTVWKQFGGLPEFYNIPOGYTVEKREGYPLRPELIE
SAMYLYRATGDP TLLELGRDAVESIEKISKVECGFATIKDLRDHKLDNRMESFFLAETVKYLYLLFDPTNFIHNN
GSTFDTVITPYGECILGAGGYIFNTEAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRCRSKFQKNTVSSGPW
EPPARPGTLFSPENHDQARERKPAKQKVPLLSCPSQPF TSKLALLGQVFLDSS

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FIGURE 5742

GACGGAAACCTTTTTAGGGAGTCCAAGGTACAGTCGCCGCGTGCAGCTTGTTACTGGTTACTTGGCCTCATGGC
GGTCCGAGCTTCGTTTCGAGAACAACCTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACTGTCTGGTAGC
GATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATACCATCCCCGTGGTGCACGCGTC
TATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCAC
CGACCAGGAGCTGCAACACATTTCGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTC
AGCCTTGGGCAATGTCACCACCTGCAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGGGAGACAGAAGA
AATTCTGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTG
TGTCTTCAGCAATCAGGGAGGGCTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGTCTCTCTTCT
TCAAGTCCCCCTTGTGGCGGGGACTGTGAACCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTG
GTGTGCCCTTCTGTGGCCTGGACACAACCAGCACAGAGCTGTCTAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGC
CCAGCCTAGCACCATTTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACCTGAGTCACCTTCCAAGTTGT
TCCATGGGCTCCTGGCTCTGGACTGTGGCCAACCTTCTCCACATTCCGCCCAATCTGTACCGGATGCTGGCAGGG
AGGTGGCAGAGAGCTCACTGGGACTGAGGGGCTGGGCACCCAACCTTTTCCACCTGTGCTTATCGCCTGGATCT
ATCATTACTGCAAAAACCTGCTCTGTTGTGCTGGCTGGCAGGCCCTGTGGCTGCTGGCTGAGGGTTCTGCTGTCC
TGTGCCACCCCATTAAGTGCAGTTCCTCCGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5743

MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMCVGNRHGLLVPNN
TTDQELQHIRNSLPDTVQIRRVEERLSALGNVTTTCNDYVALVHPDLDRETEEILADVLKVEVFRQTVADQVLVGS
YCVFSNQGGGLVHPKTSIEDQDELSSLQVPLVAGTVNRGSEVIAAGMVVNDWCAFCGLDTTSTELSVVESVFKLN
EAQPSTIATSMRDSLIDSLT

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FIGURE 5744A

CGTTCGGGCAGCGGCCTCTTGTTACCCGGGGCCCGCTTGCCCTCAGCTTCTTGCTGCCGCCAGCACGCTAAGCTCC
AGTCGGCGCCGAAGGAGAGCTTCCCCGACCCTCGTGTCCAGTAGCCGCAATCCCAGGCTGGGAGGGTGAGGCGCCG
CGCTCTGCCGCCCCCCCCCGCCCTCGCTCCCTGTGTCTTGGCGGATTTGCACGTAATCTATCCGAAAGCCCAGTCC
CACCCGCCACCCGACTCTGGAGCTCCCATTCTTCAGGACCCTGCTGAAGTATCGCTTCTCAGCCGCCCTTCTCCAG
GCGCAGCTGCATTTCGCTTCTCGGTTTTTGCACTCGCTGTGCACCGAGTTACTTTCCCGGCCCTCGTTGACACCG
TTCACAGGTGGCTGTTGGTCTTTAGTAAGGGTGTGTCTTCCCTGTCTGATCCTTAGCAAAAGTAGGAAGGTAGA
GTTGTTGGCAGAAATCCTGGGATAAGAGAATAGTTTCTGGAAGATCTGTGCCTCCAACCAGCAGAGAGGGATTG
AGCTTCATTGAACTCAACAGAGCCAACATTTTCATAGCACCATGTTCAAGAGGAGGTTGAAGTGGCATGGCAATGG
TTAGAGACCCTGTCTGGGCGTGAACACCCTCTGGCTACCTAGGGACCTGTGGGCCTACCACCTGGTGCCCTCATGG
AGACAAGAAGCCCTGGGTTGAACAACATGAAGCCCCAGTCACTGCAGCTGGTACTGGAAGAGCAGGTGCTGGCAC
TACAGCAGCAGATGGCAGAGAATCAGGCAGCCTCCTGGCGGAAGCTGAAGAATCCCAGGAGGCCCAGCAGAGAC
AAGCAACCCCTGTGAGGAAGCTGCAGGCCAAGGTGCTGCAGTACCGAAGCTGGTGCCAAGAGCTGGAGAAGCGGC
TAGAAGCCACTGGAGGACCAATCCCCCAGAGGTGGGAAAATGTGGAGGAGCCAAACCTGGATGAGCTGCTGGTCC
GATTGGAGGAGGAGCAACAGAGGTGTGAGAGTCTAGCAGAGGTGAACACCCAGCTTCGACTGCACATGGAAAAAG
CTGACGTGGTGAATAAAGCCCTTAGGGAAGATGTGGAAAACTGACAGTGGACTGGAGCCGGCCCCGGGATGAGC
TAATGAGGAAGGAGAGCCAGTGGCAGATGGAGCAGGAGTTCTTCAAGGGCTACCTGAAAGGGGAGCACGGTGCCT
TTCTCAGTCTATGGCGGGAGGTTGTGACATTCGACGCCACTTCTTGAAATGAAGTCAGCTACTGACAGAGATC
TGATGGAGCTAAAAGCTGAGCATGTGAGGCTTTCAGGGTCTCTGTTGACCTGTTGTCTGCGCTTGACTGTGGGAG
CACAGTCTCGGGAACCCAAACGGATCTGGAAGAATGGATGGGCGGGAGCCGGCCAGCTGCTGCTGCTACTAGCCA
AGACCCAGGAGCTGGAGAAGGAAGCCCATGAAAGGAGCCAGGAGTTAATACAGCTGAAGAGTCAAGGGGATCTGG
AGAAGCTGAACCTCAGGACCGGGTGACCGAGCTCTCTGCTCTGTTGACCCAGTCTCAGAAGCAAAATGAAGATT
ATGAAAAGATGAATAAGGCTCTGAGAGAGACAGTGGAGATCCTGGAGACAAATCACACAGAATTAATGGAACATG
AAGCATCTCTTAGTAGGAATGCGCAAGAGGAGAAGTTGTCTTTACAGCAGGTGATCAAGGATATAACCCAGGTCA
TGGTGGAAGAAGGGGACAATATAGCCCAAGGCTCTGGTCATGAGAACTCTTTGGAATTGGACTCTAGTATCTTCT
CCCAGTTTGATTACCAGGATGCAGACAAGGCTCTTACTCTGGTGCGTTGAGTGTGACTCGGAGACGCCAGGCTG
TGCAGGACCTAAGGCAGCAGCTTGCAGGCTGTCAAGAGGCTGTGAACCTGTTGCAACAGCAGCATGATCAGTGGG
AGGAAGAGGGCAAAGCCCTTGAGACAGCGGCTGCAGAAGCTCACTGGGGAGCGGGACACTCTGGCAGGGCAGACTG
TGGACCTCCAGGGAGAGGTGGACTCTCTCAGCAAGGAGCGAGAGCTGCTGCAGAAGGCCAGGGAAGAGCTGCGGC
AGCAGCTGGAGGTGCTAGAGCAGGAGGATGGCGCCTGCGAAGGGTAAATGTGGAGCTTCACTGTCAGGGGGACT
CTGCCCAGGGCCAGAAGGAGGAACAGCAGGAGGAGCTGCACCTGGCTGTCCGGGAGAGGGAGCGTCTTCAGGAGA
TGCTGATGGGCCTGGAAGCCAAACAGTCAGAATCACTCAGTGAAGTATCACTCTTCGGGAAGCCCTGGAGTCAA
GTCACCTGGAAGGGGAGTTACTGAGGCAAGAGCAAACGGAGTAGCCGACGCGCTGGCTAGGGCAGAGCAGTCAA
TTGCAGAGCTGTGAGTTCTGAAAACACCCCTGAAGACAGAAGTATCTTCGGGCTGCAGCTGTCAAGCTCA
GTGCCTTAAATGAGGCTTTGGCGTTAGATAAAGTTGGGCTGAACCAGCAGCTTCTCCAGTTAGAGGAGGAGAACC
AGTCTGTGTGCAGCAGAATGGAGGCCGAGAGCAGGCGAGAAATGCTTTGCAGGTGACCTGGCGGAGGCAGAGA
AGAGGAGGGAAGCCCTGTGGGAAAAGAACACTCACCTGGAGGCTCAGCTGCAGAAAGCTGAGGAGGCTGGGGCTG
AGCTGCAGGCAGATCTCAGGGACATCCAAGAGAGAAGGAAGAAATTCAAAGAAACTAAGTGAGTCACGTCACC
AGCAGGAGGCAGCCACGACTCAGCTGGAGCAGCTACATCAGGAGGCAAAGCGACAGGAAGAAGTGCTTGCCAGGG
CAGTCCAGGAGAAGGAGGCCCTAGTACGAGAGAAAGCGGCTCTAGAGGTGCGGCTGCAGGCCGTGGAGCGTGACC
GGCAGGACCTCGCTGAACAACTACAGGGGCTCAGCTCAGCCAAGGAGCTACTGGAGAGCAGTCTGTTTGAAGCCC
AACAACAAAATTCTGTGATAGAGGTACCAAGGGGCAGCTGGAGGTCCAGATTCAAACCTGTCACTCAAGCCAAGG
AAGTAATCCAAGGGGAAGTGAGGTGCCTGAAGCTGGAACCTGGACACTGAACGGAGTCAGGCAGAGCAGGAGCGGG
ATGCTGCAGCCAGACAGCTGGCCCAGGCTGAGCAAGAAGGGAAGACTGCCTTGGAGCAGCAGAAGGCAGCCCCATG
AGAAAGAGGTGAACCAGTCCGGGAGAAATGGGAGAAGGAGCGCTCCTGGCACCAGCAGGAGCTGGCAAAGGCTC
TGGAGAGCTTAGAAAGGGAAAAATGGAGCTGGAATGAGGCTAAAGGAGCAGCAGACAGAAATGGAGGCCATCC
AGGCCCAGAGGGAAGAAGAACGGACCCAGGCAGAGAGTGCCCTATGCCAGATGCAGCTGGAACAGAGAAGGAGA
GAGTATCCCTCCTGGAGACACTGCTGCAGACGCAGAAGGAGCTAGCAGATGCCAGCCAACACTGGAACGACTGA
GGCAGGACATGAAAGTCCAGAAATTAAAGGAGCAGGAGACCCTGGGATACTACAGACCCAGCTCCAGGAGGCTC

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FIGURE 5744B

AACGGGAGCTGAAGGAGGCAGCCCGGCAGCACAGAGATGACCTTGCTGCCCTCCAAGAAGAGAGCAGCTCCCTGC
TGCAGGATAAGATGGACCTGCAGAAGCAGGTGGAGGACTTGAAGTCTCAGCTGGTGGCCAGGATGACTCC'CAGA
GGCTGGTGGAGCAGGAGGTTTCAGGAGAAGCTGAGAGAGACCCAGGAGTATAACCGAATTCAGAAGGAGCTGGAGA
GAGAGAAAAGCCAGCCTGACTCTGTCACTGATGGAAGGAACAGAGACTCCTTGTTTTACAAGAAGCTGACTCTA
TTCGACAACAAGAGCTGAGTGCCCTGCGCCAGGACATGCAGGAGGCCAGGGAGAACAGAAAGAGCTCAGTGCTC
AGATGGAATTACTAAGGCAAGAGGTGAAGGAAAAGGAGGCTGACTTTCTGGCCAGGAAGCACAGCTGCTGGAGG
AGCTGGAGGCGTCTCATATCACGGAGCAGCAGCTGCGAGCCTCCTTGTTGGGCCAGGAAGCCAAGGCAGCCCAAC
TACAGCTGCGACTGCGCAGCACAGAGAGCCAGCTAGAAGCGCTGGCCGCAGAGCAGCAGCCCGGAACCAGGCC
AGGCCAGGCCAGCTGGCCAGCCTCTACTCTGCCCTGCAGCAGGCCCTGGGGTCTGTTTGTGAGAGCAGGCCTG
AGCTGAGTGGTGGGGGAGACTCTGCTCCTTCCGTCTGGGGCCTTGAGCCAGACCAGAATGGAGCTAGGAGCCTCT
TTAAGAGAGGGCCCCCTGCTGACTGCTCTCTCCGTCTGAGGCAGTAGCATCTGCCCTCCACAAGCTTCATCAAGACC
TGTGGAAGACTCAACAGACCCGGGATGTTCTGAGGGATCAGGTCCAGAACTGGAAGAGCGTCTAACTGATACTG
AGGCTGAGAAGAGCCAGGTCCACACAGAGTTGCAGGATCTGCAGAGACAGCTCTCCAGAAATCAGGAAGAGAAAT
CCAAGTGGGAAGGAAAGCAGAACTCCCTAGAATCTGAGCTGATGGAATACATGAACTATGGCATCCTTACAGA
GTCGCTGCGGAGAGCAGAGCTACAGCGAATGGAAGCCCAGGGTGAGCGAGAGTTACTTCAGGCAGCCAAGGAGA
ACCTGACAGCCCAGGTGGAACACCTGCAAGCAGCTGTCTGTAAGCCAGGGCTCAGGCAAGTGCTGCTGGCATCC
TGGAAGAAGACCTGAGAACGGCTCGCTCAGCACTGAAGCTGAAAAATGAGGAAGTAGAGAGTGAGCGTGAGAGAG
CCCAGGCTCTGCAAGAGCAGGGCGAACTGAAGGTGGCCCAAGGGAAGGCTCTGCAAGAGAATTTGGCCCTCCTGA
CCCAGACCCTAGCTGAAAGAGAAGAGGAGGTGGAGACTCTGCGGGGACAAATCCAGGAATGGAGAAGCAACGGG
AAATGCAGAAGGCTGCTTTGGAATTGCTGTCTCTGGACCTGAAGAAGAGGAACCAAGAGGTAGATCTGCAGCAAG
AACAGATTAGGAGCTAGAGAAGTGTAGGTCTGTTTATAGAGCATCTGCCATGGCCGTCCAGGAGCGAGAGCAGA
AGCTGACTGTGCAGAGGGAGCAGATCAGAGAGCTCGAGAAGGATCGGGAGACTCAGAGGAACGTCTTGAGCATC
AGCTTCTAGAACTTGAGAAGAAAGACCAATGATTGAGTCCCAGAGAGGACAGGTTTCAGGACCTGAAAAAGCAGT
TGTTACTCTGGAATGCCTGGCCCTGGAATGGAGGAAAACCATCACAAAGATGGAGTGCCAGCAAAAAGTATGATCA
AGGAGCTGGAGGGCCAGAGGGAACCCAGAGAGTGGCTTTGACCCACCTTACGCTGGACCTAGAAGAAAGGAGCC
AGAGGGACCAGGAGGTGAAGTCTCAGCGAGAACAGATCGAGGAGCTGCAGAGGCAGAAAGAGCATCTGACTCAGG
ATCTCGAGAGGAGAGACCAGGAGCTGATGCTGCAGAAGGAGAGGATTAGGTTCTCGAGGATCAGAGGACCCGGC
AGACCAAGATCCTGGAGGAGGACCTGGAACAGATCAAGCTGTCTTGAGAGAGCGAGGCCGGGAGCTGACCACTC
AGAGGCAGCTGATGCAGGAACGGGCAGAGGAAGGGAAGGGCCCAAGTAAAGCACAGCGCGGGAGCCTAGAGCACA
TGAAGCTGATCCTGCGTGATAAGGAGAAGGAGGTGGAATGTCCAGAGGAGCATATCCATGAACTCCAGGAGCTCA
AAGACCAGCTGGAGCAGCAGCTCCAGGGCCTGCACAGGAAGGTAGGTGAGACCAGCCTCCTCCTGTCCCAGCGAG
AGCAGGAAATAGTGGTCTGCAGCAGCAACTGCAGGAAGCCAGGGAACAAGGGGAGCTGAAGGAGCAGTCACTTC
AGAGTCAACTGGATGAGGCCAGAGAGCCCTAGCCCAGAGGGACCAGGAACCTGGAGGCTCTGCAGCAAGAACAGC
AGCAGGCCAGGGACAGGAGGAGAGGGTGAAGGAAAAGGCAGACGCCCTCCAGGGAGCTCTGGAGCAAGCCCAT
TGACACTGAAGGAGCGTCATGGAGAGCTTCAGGACCACAAGGAACAGGCACGAAGGCTGGAGGAAGAGCTGGCAG
TGGAGGGACGGCGGGTCCAGGCCCTGGAGGAGGTGCTGGGAGACCTAAGGGCTGAGTCTCGGGAACAGGAGAAAG
CTCTGTTGGCCCTCCAGCAGCAGTGTGCTGAGCAGGCACAGGAGCATGAGGTGGAGACCAGGGCCCTGCAGGACA
GCTGGCTGCAGGCCAGGAGTGTCAAGGAACGGGACCAGGAGCTGGAAGCTCTGCGGGCAGAAAGTCAGTCTCCT
CCCGGCATCAGGAGGAGGCTGCCCGGGCCCGGGCTGAGGCTCTGCAGGAGGCCCTTGGAAGGCTCATGCTGCC
TGCAGGGGAAAGAGCAGCATCTCCTCGAGCAGGCAGAAATGAGCCGCAGTCTGGAGGCCAGCACTGCAACCCTGC
AAGCCTCCCTGGATGCCTGCCAGGCACACAGTCCGGCAGCTGGAGGAGGCTCTGAGGATAACAAGAAGGTGAGATCC
AGGACCAGGATCTCCGATACCAGGAGGATGTGCAGCAGCTGCAGCAGGCACCTTGCCAGAGGGATGAAGAGCTGA
GACATCAGCAGGAACGGGAGCAGCTGCTGGAGAAGTCTCTGGCCAGAGGGTCCAAGAGAATATGATCCAAGAGA
AGCAGAATCTGGGGCAAGAGAGAGAAGAGGAGGAGATAAGGGGCCTTCATCAGAGTGTAAGGGAGCTACAGCTGA
CTCTAGCCCAAAAGGAACAGGAGATTCTGGAGCTGAGGGAGACCCAGCAAAGGAACAACCTGGAAGCCTTACCCC
ACAGCCACAAAACCTCCCCAATGGAGGAACAATCTCTAAAACCTTGATTCTTTAGAGCCAGGCTGCAGCGGGAGC
TGGAGCGGCTACAGGCAGCCCTGAGACAGACAGAAGCCAGGGAGATTGAGTGGAGGGAGAAGGCCAGGACTTGG

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FIGURE 5744C

CACTCTCCCTAGCGCAGACCAAGGCCAGTGTGAGCAGTCTGCAGGAGGTAGCCATGTTCCCTACAAGCCTCTGTCC
TGGAGCGGGACTCAGAACAGCAAAGGCTGCAGGATGAACTGGAGCTCACCAGACGGGCTCTGGAGAAGGAGCGGC
TACACAGCCCAGGTGCAACCAGCACAGCAGAACTGGGGTCCAGAGGGGAGCAGGGTGTGCAGCTGGGAGAGGTCT
CAGGAGTGGAGGCTGAGCCTAGTCCTGATGGAATGGAGAAGCAGTCATGGAGACAAAGGCTTGAACACCTGCAGC
AAGCAGTGGCCCGGCTGGAGATTGACAGGAGCAGGCTGCAGCGCCACAATGTCCAGCTGCGGAGTACCTTGGAGC
AGGTGGAGCGAGAACGGAGGAAGCTGAAGAGGGAGGCCATGCGTGC GGCCAGGCAGGGTCCCTAGAGATCAGCA
AGGCCACGGCTTCTTACCCACACAGCAGGATGGGAGAGGACAGAAGAACTCAGATGCCAAGTGTGTGGCTGAAC
TGCAGAAAGAGGTGGTCTCTGCTGCAAGCTCAGCTGACTTTGGAGCGGAAGCAGAAGCAGGACTACATCACCCGCT
CAGCACAGACCAGCCGTGAGCTAGCAGGCCTGCACCACAGCCTCTCACACTCACTTCTTGCCGTGGCCAGGCCC
CTGAGGCCACTGTCTGGAGGCAGAGACCCGCAGGCTGGATGAGTCCCTGACTCAAAGTCTGACATCCCCAGGGC
CAGTCCTGCTACACCCAGCCCCAGCACTACCCAAGCCGCCTCCAGGTAGCAGCCACAGCCAGGAGCACACAGAC
AGAAGACTGTGTGTCATGGGTGTCATGGCCCCCTCCGCACACCTACAGGTTTGCCAAAGGAAAAGCCTGGCTCTGTTAGG
CACCCAGGAGCCCCAGGTGCGCGGGTGTTCAGGAAGAGGAAGTAAATCTGCAACCTGGGGAGGACCCCACT
CACCTGGGAATGAGGCAAATTGCATTTGCTTGCTCCCTATGGAATCACCCAGAGGGGTGCCCTTGCCCTGGCTGAG
GGACATGTACTGCCTCTCATCTAGAATTTATTTCTAGCACTTCACCACCTCCTTCATCTTCTCCTTCAACAAT
AAACCCTGAGATCTTTGCATTCAAAAAAAAAAAAAAAAAA

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FIGURE 5745

CTGGCGTCCCCTTTCCGGCCGGTCCCCATGGAGGCGCTGGGGAAGCTGAAGCAGTTTCGATGCCTACCCCAAGACT
TTGGAGGACTTCCGGGTCAAGACCTGCGGGGGCGCCACCGTGACCATTGTTCAGTGGCCTTCTCATGCTGCTACTG
TTCCTGTCCGAGCTGCAGTATTACCTCACCACGGAGGTGCATCCTGAGCTCTACGTGGACAAGTCGCGGGGAGAT
AAACTGAAGATCAACATCGATGTACTTTTTCCGCACATGCCTTGTGCCTATCTGAGTATTGATGCCATGGATGTG
GCCGAGAACAGCAGCTGGATGTGGAACACAACCTGTTCAAGCAACGACTAGATAAAGATGGCATCCCCGTGAGC
TCAGAGGCTGAGCGGCATGAGCTTGGGAAAGTCGAGGTGACGGTGTGTTGACCCTGACTCCCTGGACCCGTATCGC
TGTGAGAGCTGCTATGGTGCTGAGGCAGAAGATATCAAGTGCTGTAACACCTGTGAAGATGTGCGGGAGGCATAT
CGCCGTAGAGGCTGGGCCTTCAAGAACCCAGATACTATTGAGCAGTGCCGGCGAGAGGGCTTCAGCCAGAAGATG
CAGGAGCAGAAGAATGAAGGCTGCCAGGTGTATGGCTTCTTGGAAGTCAATAAGGTGGCCGGAACCTTCCACTTT
GCCCCTGGAAGAGCTTCCAGCAGTCCCATGTGCACGTCCATGACTTGCAGAGCTTTGGCCTTGACAACATCAAC
ATGACCCACTACATCCAGCACCTGTCAATTTGGGGAGGACTATCCAGGCATTGTGAACCCCTGGACCACACCAAT
GTCAGTGCGCCCAAGCCTCCATGATGTTCCAGTACTTTGTGAAGGTGGTGCCCACTGTGTACATGAAGGTGGAC
GGAGAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGAAGGTTGCCAATGGGCTGTTGGGCGACCAA
GGCCTTCCCGGAGTCTTCGTCTCTATGAGCTCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCCCTTC
ACCCACTTCCTGACAGGTGTGTGCGCCATCATTGGGGGCATGTTACAGTGGCTGGACTCATCGATTGCTCATC
TACCACTCAGCACGAGCCATCCAGAAGAAAATTGATCTAGGGAAGACAACGTACTCACCCCTCGGTGCTTCCTCTG
TCTCCTCTTTCTCCCTGGCCTGTGGTTGTCCCCAGCCTCTGCCACCCTCCACCTCCTCGGTCAGCCCCAGCCCC
AGGTTGATAAATCTATTGATTGATTGTGATAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5746

MEALGKCLKQFDAYPKTLED FRVKTCGGATVTIVSGLLMLLLFLSELQYYLTTEVHPELYVDKSRGDKLKINIDVL
FPHMPCAYLSIDAMDVAGEQQLDVEHNLFKQRLDKDGIPVSSEAERHELKGVEVTVFDPDSLDPDRCESCYGAEA
EDIKCCNTCEDVREAYRRRGWAFKNPDTIEQCRREGFSQKMQEKNEGCQVYGFLEVNVK VAGNFHFAPGKS FQQS
HVVHVDLQSFGLDNINMTHYIQHLSFGEDYPGIVNPLDHTNVTAPQASMMFQYFVKVVP TVYMKVDGEVLR TNQF
SVTRHEKVANGLLGDQGLPGVFVLYELSPMMVKLTEKHRSFTHFLTGVCAIIGGMFTVAGLIDSLIYHSARAIQK
KIDLGKTT

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FIGURE 5747

ACCAGGCAAAATATTCCATTAGCATTACAAAGATGGATGTTCTTCAGTTCCTAGAAGGAATCCCAGTGGATGAAA
ATGCTGTACATGTTCTTGTGATAACAATGGGCAAGGTCTAGGACAGGCATTGGTTCAGTTTAAAAATGAAGATG
ATGCACATGGCCCCACTGCGTGACCTTGGTTTCAGCTGTCCATTTCCTGTGACCATCTCATTGACAAGGACATCGGC
TCCAAGTCTGACCCACTCTGCGTCCCTTTTACAGGATGTGGGAGGGGGCAGCTGGGCTGAGCTTGGCCGGACTGAA
CGGGTGCGGAACCTGCTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAGTACCGCTTTGAGACAGTCCAGAAG
CTACGCTTTTGAATCTATGACATAGACAACAAGACGCCAGAGCTGAGGGATGATGACTTCCTAGGGGGTGCTGAG
TGTTCCCTAGGACAGATTGTGTCCAGCCAGGTACTGACTCTCCCTTGATGCTGAAGCCTGGAAAACCTGCTGGG
CGGGGGACCATCACGGTCTCAGCTCAGGAATTAAAGGACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAAAC
CTAGATAAGAAGGACTTCCTGGGAAAATCAGATCCATTTCTGGAGTTCCTCCGCCAGGGTGATGGGAAATGGCAC
CTGGTGACAGATCTGAGGTCACTCAAGAACAACCTGAACCCCTACATGGAAGCGTTTCTCAGTCCCCGTTTCAGCAT
TTCTGTGGTGGGAACCCAGCACACCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGGTACATGATCTC
ATCGGTACCTTCCACACCAGCTTGGCCAGCTGCAGGCAGTCCCGGCTGAGTTTGAATGCATCCACCCTGAGAAG
CAGCAGAAAAAGAAAAGCTACAAGAACTCTGGAATATCCGTGTCAAGATTTGTCTGGGTAGAAAACAGAGTACTCC
TTTCTGGACTATGTGATGGGAGGCTGTGAGATCAACTTCACTGTGGGCGTGGACTTCACTGGCTCCAATGGAGAC
CCCTCCTCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAGTGTG
GGCAGCGTGGTTTCAGGACTATGACTCAGACAAGCTGTTCCCTGCATTGGATTGGGGCCAGGTTCCCCCTGAC
TGGCAGGTCTCGCATGAATTTGCCTTGAATTTCAACCCCAAGTTCGCTCTATGGCCCTACCAACTTTGCACCCATCATCAACCATGTG
GATGCCTACCGCCAAGCCCTGCCCCAAGTTCGCTCTATGGCCCTACCAACTTTGCACCCATCATCAACCATGTG
GCCAGGTTTGCAGCCAGGCTGCACATCAGGGGACTGCCTCGCAATACTTCATGCTGTTGCTGCTGACTGATGGT
GCTGTGACGGATGTGGAAGCCACACGTGAGGCTGTGGTGCCTCGAACCTGCCCATGTGAGTGATCATTGTG
GGTGTGGGTGGTGTGACTTTGAGGCCATGGAGCAGCTGGACGCTGATGGTGGACCCCTGCATACACGTTCTGGG
CAGGCTGCTGCCCAGGACATTGTGAGTTTGTACCTACCGCCGGTTCCAGAATGCCCCCTCGGGAGGCATTGGCA
CAGACCGTGCTCGCAGAAGTGCCACACAACCTGGTCTCATACTTCAGGGCCCAGGGTTGGGCCCCGCTCAAGCCA
CTTCCACCCTCAGCCAAGGATCCTGCACAGGCCCCCAGGCCTAGGTTCCCTTGGAGGCTGTGGCAAGTCTCTCA
TCCTGTGTCCCAGAGGTCCCTXTGGGCCACAACCAACCCTTCTCACTCTCCTCAGTGCTAGCACTTTGTATTTT
TTGATACTTTTATACTTGTCTTGTCTTGTCTTGTATCCCACCTTTGCTCCTGACAACCCTCATTCAATAA
AGACCAGTGAAGACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5748

MAHCVTLVQLSISCDHLIDKDIGSKSDPLCVLLQDVGGGSWAELGRTERVRNCSSPEFSKTLQLEYRFETVQKLR
FGIYDIDNKTPELRDDDFLGGAECSLGQIVSSQVLTLPMLKPGKPAGRGTITVSAQELKDNRVVTMEVEARNLD
KKDFLGKSDPFLEFFRQGDGKWHLVYRSEVIKNNLNPTWKRFVFPVQHFCGGNPSTPIQVQCSDYDSGSHDLIG
TFHTSLAQLQAVPAEFECIHPEKQKKKSYKNSGTIRVKICRVETEYSFLDYVMGGCQINFVGVDFTGSDGSDPS
SPDSLHYLSPTGVNEYLMALWSVGSVVQDYDSDKLFPAGFGAQPDPWQVSHEFALNFPNPNYCAGIQGIVDA
YRQALPQVRLYGPTNFAPIINHVARFAAQAAHQGTASQYFMLLLLTGAVTDVEATREAVVRASNLPM SVIIVGV
GGADFEAMEQLDADGGPLHTRSGQAAARDIVQFVPYRRFQNA PREALAQTVLAEVPTQLVSYFRAQGWAPLKPLP
PSAKDPAQAPQA

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FIGURE 5749

GACGCGGGGCCGGAACGCGAAGAGGGTGGTGGAGTCGGGCTACCCACTGATTTTCCTTCCCTTACTTCCCCTGAG
CCCTTGGGCCCCACTTCCCAGCCTACCGCTTCCGTCCCCGCCCCGACTCTTGGGCCAGCGCCTGGGCCCACACTTTC
CTATCCCCCGCAGATGCCGGTGGCCGTGGGTCCCTACGGACAGTCCCAGCCAAGCTGCTTCGACCGTGTCAAAAT
GGGCTTCGTGATGGGTTGCGCCGTGGGCATGGCGGCCGGGGCGCTCTTCGGCACCTTTTCCTGTCTCAGGATCGG
AATGCGGGGTCGAGAGCTGATGGGCGGCATTGGGAAAACCATGATGCAGAGTGGCGGCACCTTTGGCACATTCAT
GGCCATTGGGATGGGCATCCGATGCTAACCATGGTTGCCAACTACATCTGTCCCTTCCCATCAATCCCAGCCCAT
GTACTAATAAAAGAAAGTCTTTGAGT

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FIGURE 5750

GGACGCAGAGAAGCCAGAGACTTTTCGCTTCCGGCTGCCGCAGGCGCTTCGCTGGTGCAGGTAAGCTCCGCACACT
CTCGGCCGGTCCCAGTCCGACTCCCTCAAGGGTGACGCGAGCTCTGCCCTTTAACCAGGAAACGTCTCCCTGCTC
ACCCACCCCCCGCGCAGACGCAGTGCTGAGCACACAGCTACCGGACAAAGAGTGACGCCCGGAGCTGGAGTTATG

GCGGCTACGGAGCCGATCTTGGCGGCCACTGGGAGTCCCGCGGCGGTGCCACCGGAGAACTGGAAGGAGCCGGT
TCGAGCTCAGCCCCCTGAGCGTAACTGTGTGGGCTCCTCGCTGCCAGAGGCTCACCAGCTGCCCTGAGCCTTCC
AGTCCCAACGCCGCGGTCCCTGAAGCCATCCCTACGCCCCGAGCTGCGGCCTCCGCGGCCCTGGAGCTGCCTCTC
GGGCCCCGACCCGTGAGCGTAGCGCTCAGGCCGAAGCTGAAGCGCGCTCCACACCAGGCCCCGCGGCTCTAGA
CTCGGTCCCGAGACGTTCCGCCAGCGTTTCCGGCAGTTCCGCTACCAGGATGCGGCGGGTCCCCGGGAGGCTTTC
CGGCAGCTGCGGGAGCTGTCCCGCCAGTGGCTGCGGCCTGACATCCGCACCAAGGAGCAGATCGTGGAGATGCTG
GTGCAAGAGCAGCTGCTCGCCATCCTGCCCCGAGGCGGCTCGGGCCCCGCGGATCCGCCGCCGCACGGATGTGCGC
ATCACTGGCTGAGCGGTGGAGCTGCGGGCGGCCAGGGCCGGGCGCTCTGTGCGGACTGGGGCCATGATCGGGCCC
GGGGGCTGAGCCTGGGACCCACCCCGTGTTAATGAAAAATGAGTTTGGCAGCGCCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAA

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FIGURE 5751

MAATEPILAAATGSPAAPVPEKLEGAGSSSAPERNCVGSSLPEASPPAPEPSSPNAAVPEAIPTPRAAASAALELP
LGPAPVSVAPQAEAEARSTPGPAGSRLGPETFRQFRQFRYQDAAGPREAFRLRELSRQWLRPDIRTKEQIVEM
LVQEQLLAILPEAARARRIRRTDVRITG

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FIGURE 5752

CTTTTTCCTTTCCTGATTCCCTTGTGTATGTGTGGCTGGGCGCGCCCTCTTCTCGGCTCAGAGTCACGGAGTGCCT
TGAAC TAGGCCACCTCGCCGGGGCGGCTGGTTCTCTGTTTGTGGGACGCTGGTGTCTCTGGAGGCCCTTCCTGA
GAAGCCGTCGCCAGAGTTACGTGCGGGTTTTCTTAACCTTTAGAGCCTGGGGGCGGAGACCCTGATTGCACTCGA
CCTGGCTCTGCCCTACTCTCTGCGTGACTTCCACTGTTTCATCAAAGAAAAAGGGTTCTTTTGGTCACCCACCACT
GGCCCCATGGCTGCCGTGCAGATGGATCCTGAGCTAGCCAAGCGCCTCTTCTTTGAAGGGGCCACTGTGGTCATC
CTGAACATGCCCAAGGGAACAGAGTTTGGGATTGACTATAACTCCTGGGAGGTGCGGGCCCAAGTTCCGGGGCGTG
AAGATGATCCCTCCAGGCATCCACTTCCTCCACTACAGCTCTGTGGACAAGGCTAATCCGAAGGAAGTAGGCCCT
CGTATGGGTTTTCTTCCCTTAGCCTGCACCAGCGGGGGCTGACAGTGCTGCGCTGGAGCACACTCAGGGAAGAGGTA
GACCTGTCCCCAGCCCCAGAGTCTGAGGTGGAGGCCATGAGGGCCAACCTCCAGGAGCTGGACCAGTTCTGGGG
CCTTACCCATATGCCACCCTGAAGAAGTGGATCTCACTACCAACTTCATCAGCGAAGCCACAGTGGAGAAGCTA
CAGCCCGAGAAATCGACAGATCTGTGCCTTTTCCGATGTGCTACCTGTGCTCTCCATGAAGCACACCAAGGACCGC
GTGGGGCAGAAATCTACCCCGCTGTGGCATTGAGTGCAAAAGCTACCAAGAGGGCCTGGCCCCGGCTACCAGAGATG
AAGCCAGAGCCGGGACAGAGATCCGCTTCTCAGAGCTGCCCACGCAGATGTTCCAGAGGGTGCCACGCCAGCT
GAGATAACCAAGCACAGCATGGACCTGAGCTATGCCCTGGAGACTGTGCTCAACAAGCAGTTCCCCAGCAGCCCC
CAGGATGTGCTTGGTGAACCTCCAGTTTGCTTTTGTGTGCTTCCTGCTGGGGAATGTGTACGAGGCATTGAGCAT
TGGAAGCGGCTCCTGAACCTCCTGTGCCGGTCAGAAGCAGCCATGATGAAGCACACACCCTCTACATCAACCTC
ATCTCCATCCTGTACCACAGCTTGGTGAGATCCCCGCTGACTTCTTCGTAGACATTGTCTCCCAAGACAACTTC
CTCACCAGCACCTTACAGGTTTTCTTTTCTCTGCCTGCAGCATTGCCGTGGATGCCACCCTGAGAAAAGAAAGCT
GAAAAGTTCCAAGCTCACCTGACCAAGAAGTTCCGGTGGGACTTTGCTGCGGAACCTGAGGACTGTGCCCCGGTG
GTGGTGAGCTCCCTGAGGGCATCGAGATGGGCTTAACCTCGGGGAGCGCTCTCAGCTGCGAGGGGGCCCCCTTCCAC
AGGGCTGCAGTCTGGCCTCTCCATTTACTTCTTCCATCCTGGGACCTGCCAGGGCAGCAATCTCTCCAGGTCC
TGCAAAGATGGAGCCAGAATTCCCTTTTTCACTGATAAATATATTTCTTCATTGCCAAAGAGGCTGTACCCATCC
TGAAGGCACATTTGTGGGTTCCCCATCAGCCAGGCCTTGGTGCTAACCTGGCTGAATTCACACAGGCTCTTACA
CACACACGCTCCTAGGAGACATCTGCCTACACGGCAACCATATTTCTCTGAATGAGAAGGAATTGAACCAAAAG
TCCAAGAAAGAAGCTGATTGCTTGTTCCATAGGAGCTTAGGAAACAAGAAACCCTGGATTGCCAGGGGGTCTGAG
AAGTTGGTTGGTGACTTTTTTTGCGGTTAAATGAAGGGTGATGGGGAGATCAGCCCGAATTGCCGCTGCCTCTT
GCTAAATAGGAGCAGAGGACTTGGCCTGCAGCTCCTTGGGAGCCCTTGATTGGGAAGAGAGTTTCAAGGGAGGCA
GCTGGATTCAATCTAGCAGGTGGTCAGCTTTCAGCTTCTCCATCGAAATCCCATTCTCCTGTCCAGAGGCCAGT
GGGTATCTCCCAAGGTGGGTGTGGACCCTGGCCTCAGAGGCCTTGCTGGTGCTGTACCTCCCACCTGTTCCAT
TCCGAGGCCTCACCCAGAAGTGGGACCCTCCCCTTCCCTACCAGAGCCACCGTGACTGTTTCTGATGACCTGGAG
AGTCAACAACAACCAGAAAGGTTTTCTGCCAGAGCAGGCTTCTTAAGGCCTTTACGAAGTTTTGTGCCTTCCAAG
TGCTGAAGAAGACCTGGTCAGCCTAAATCTTCCAGTCCCGCTGTGGAGCTGTCAGTCACCGGAGTAATGAGCTC
CTGGTTTCTCGGGAGTCTTTCGTGCTGTGTGGCAGGGTTCTCTCTAGACAAGTACACAGGCCCTGCCACCCTGA
CATCAAACTGTTGTACTATGATCACAGTCCCTGTGCCATCCTTTTCCAAGACTGGGGCTCACACCATGTTTTTGA
ATGAGAATCCCTGCTGGTTGAGACTTTTGCTTCCACTTGTTTCTTGGAGATGTTTTTCCAAGAGCATAATGTAC
ATTAAAGTCTTCGAGTTGAGACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5753

MAAVQMDPELAKRLFFEGATVVILNMPKGTEFGIDYNSWEVGPKFRGVKMIPPGIHFLHYSSVDKANPKEVGPRM
GFFLSLHQRLTVLRWSTLREEVDLSPAPSESEVEAMRANLQELDQFLGPYPYATLKKWISLTNFI SEATVEKLQP
ENRQICAFSDVLPVLSMKHTKDRVGQNLPRCGIECKSYQEGLARLPENKPRAGTEIRFSELPTQMFPEGATPAEI
TKHSMDSL SYALETVLNKQFPSSPDVLGELQFAFVCFLGNVYEAFEHWKRLNLLCRSEAAMMKHHTLYINLIS
ILYHQLGEIPADFFVDIVSQDNFLTSTLQVFFSSACSI AVDATLRKKA EK FQAHLTKKFRWDFAAEPEDCAPVVV
ELPEGIEMG

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FIGURE 5754

GGAAGCCCCACCCACCAGAAGCCAAGATGTCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGC
GGGCCACATCCAATGTCTTCGCAATGTTTGACCAGTCCCAGATCCAGGAGTTTAAGGAGGCTTTCAACATGATTG
ACCAGAACCGTGATGGCTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCGCTGGGGAAGAACCCACAG
ACGAATACCTGGAGGGCATGATGAGCGAGGCCCCGGGGGCCCATCAACTTCACCATGTTTCTCACCATGTTTGGG
AGAAGCTGAACGGCACGGACCCCGAGGATGTGATTGCAACGCCTTTGCCTGCTTCGACGAGGAAGCCTCAGGTT
TCATCCATGAGGACCACCTCCGGGAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGACGAGA
TGTACCGGGAGGCACCCATTGATAAGAAAGGCAACTTCAACTACGTGGAGTTCACCCGCATCCTCAAACATGGCG
CCAAGGATAAAGACGACTAGGCCACCCAGCCCCCTGACACCCAGCCCCCGCCAGTCACCCCTCCCCGCACACA
CCCGTCCATACCAGCTCCCTGCCCATGACCTCGCTCAGGGATCCCCCTTTGAGGGGTTAGGGTCCCAGTTCCTCA
GTGGAAGAAACAGGCCAGGAGAAGTGCGTGCCGAGCTGAGGCAGATGTTCCACAGTGACCCAGAGCCCTGGGC
TATAGTCTCTGACCCCTCCAAGGAAAGACCACCTTCTGGGGACATGGGCTGGAGGGCAGGACCTAGAGGCACCAA
GGGAAGGCCCCATTCCGGGGCTGTTCCCCGAGGAGGAAGGGAAGGGGCTCTGTGTGCCCCCAGGAGGAAGAGGC
CCTGAGTCTTGGGATCAGACACCCCTTCACGTGTATCCCCACACAAATGCAAGCTCACCAAGGTCCCCCTCTCAGT
CCCCTTCCCTACACCCTGACCGGCCACTGCCGCACACCCACCCAGAGCACGCCACCCGCCATGGGAGTGTGCTCA
GGAGTCGCGGGCAGCGTGACATCTGTCCCAGAGGGGGCAGAATCTCCAATAGAGGACTGAGCACT

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FIGURE 5755

MSSKRAKAKTTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLEGMMS
EAPGPINFMTMFLTMFGEKLNKGTDPEDVIRNAFACFDEEASGF IHEDHLRELLTTMGDRFTDEEVDEMYREAPIDK
KGNFNYVEFTRILKHGAKDKDD

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FIGURE 5756

GCGGGGGGTGGGCGCAGCTCGTCGCGCTCCGCACAAAGTTTGTCTTCTCCCTCCGGGCGGGTGGGGGAGGGCGCA
GAGGGCGCGGGGGGAGGAGAGGGGATCTGACGTGAGGCCGCGAGGTGCTTTCCAGCCGCGAGCTGTCAGGCCGAG
TGTCAGGCCGGGCGAGTTTACCCAAGGTCCAGCCTAGCCCCCTAGGCACCATGTGCGACAGTGATCTAGGTGAGGA
CGAAGGCCCTCCTCTCCCTGGCGGGCAAAAGGAAGCGCAGGGGGAACTGCCCAAGGAGTCGGTGAAGATCCTCCG
GGACTGGCTGTACTTGACCCGCTACAACGCTACCCCTCAGAGCAGGAGAAGCTGAGCCTTTCTGGACAGACCAA
CCTGTGAGTGTGCAAAATATGTAAGTGGTTTCAATGCCCCGGCGGGGCTTCTCCCAGACATGCTTCGGAAGGA
TGGCAAAGACCCTAATCAGTTTACCATTTCGCCGCGCGGGGGTAAGGCCTCAGATGTGGCCCTCCCCCGTGGCAG
CAGCCCCCTCAGTGTGGCTGTGTCTGTCCCAGCCCCACCAATGTGCTCTCCCTGTCTGTGTGCTCCATGCCGCT
TCACTCAGGCCAGGGGAAAAGCCAGCAGCCCCCTTTCCACGTGGGGAGCTGGAGTCTCCCAAGCCCCCTGGTGAC
CCCTGGTAGCACACTTACTCTGTGACCAGGGCTGAGGCTGGAAGCCCCACAGGTGGACTCTTCAACAGGCCACC
ACCCACACCCCCAGAGCAGGACAAAGAGGACTTCAGCAGCTTCCAGCTGCTGGTGGAGGTGGCGCTACAGAGGGC
TGCTGAGATGGAGCTCAGAAGCAGCAGGACCCATCACTCCCATTAAGTGCACACTCCCATCCCTTTAGTCTCTGA
AAATCCCCAGTAGGCATCTGCCAAGAAGGGTGTGAAGGCTCCAGCCAGCTGTCTGGGTTTCCGTTTTGGTTCC
CTTTTCATACAGAGGGTTTCTATGGATCACTGCCAAACATTGGGATCATCTCCTCTGTCCAGAGGTCTTCAACAG
GAAGATGCCAGCTGGCACCCTGCACTGTGATGGGGGCCCTCTCCTCTGTGACTCTGCCGTTTCTCCAGGCCCTC
CGCTCAGTGATGAGACCAAGAGATCGGAGACAAGCATGGTGTCTGTCTTCTGTGCTTCTCCAGAAAATCCCTG
GGACACCTTTGTTCAGCCTGGTTTCTCTGGGCTGGGCTCAGGAAAGCTGCCAAATTCAGTCCATATGTTGGGTCCA
AGCTGCCCTGTGCTGTCTGTCAAGCCAGGTGTGGACATTCCAAGTTCATATGCGTGAACAAAAGAAAAGAGG
AACCCAGTGGATGTAACAGAACCGACTCCAGTTGAATGTTTAGATTTTGTCTAACTGTTTTCTTTTTCCCTTTT
TTGCTGTGGTTTGCAATTCAGGCAGTAGTTAGCCAGGTGTGGGGAACGAGAGTGCATGCATGATAGCGTTCTG
GTGAGCTGGGAAGGACCCACCCTGCCACTGAGGATGTGTTTGGGAAGAAAGGAATATTTTTATCTTGGGGACCAG
CTAAGTCTCTGCAGTAGTGTGAAATTCCAAATGGTTGTTTTATCATTTGGTTTGGTTTACCAAAAAAGGCAGGG
AAAAAAAAAAAAAAAAACAACCGTATGAGCGCATTGGCTTGTCTGCGCAGGCACAGAAGGGTAGAAAGCCACAGCAG
GGGGCAGTCCAGCAGACTCTGACTCAACTTTCTAGGCACCTAGCAGAGAAAGATAAGATCAAAAGGTGTTTGGTT
TTCTTTTTTAATTTTTATTGTAGTTTTTTTTGGGTGGGTGGGGGAAGTAAACTAGACTGAAGCGATGGATTTTTTT
TTCTTTTTTTCTTTTAGTGTTTTTTCCCTTTGTTCTTGAACACTTTTGCCCTGCAGCCTCAGTTTTGAATCTTTT
AGCAACTTGGATTAGAGGGGCCATATGTGAGAAGCTCCAGCACCTCCTACTTGGGAGAAAGTAGCCATCTG
CTGGTCAGGAAGTCTCCAGAGAGGCAGCTTTTTCCACAATGGTGGCAGGAACTTTGGGGAAGCAGGAATGGT
GTCCACTGTGCGGAGGAAGTGCCTTCAGAGAAGGTGGGGCTGGAAGGGTTAGAAGCCTCCTAGCTGGGATTG
TCTTTGTTTACCTTTCTTTAAATTAGAATTACAGAAGCCCCCTGCCAGTGAACAGATAACGATTGGTCTTATGC
TCTCCCTTTCCCCCATTTTTCTTTTGTGCTGTTTTGTTTTTGTGTTTTTGTGTTTGTGTTTTTGTGAGACA
GAGTCATGCTCTGTACCCGGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGTAACCTCCGCCCTCCCGGGTTC
AAGCAATTATTTGCCTCAGCCTCCCGAGTAGCTGGGATTATAGGCACCCGCCACCATGTCTGGCTTTTAGTAGAG
ACGGGGTTTACCATCTTGGCCAGGCTGGTCTTGAACCTCTGACCTCGTGAGCCACCACGCCAGCCTCTTTTG
CTGTTTCAATTGCTGACAGTGTTCACAAATATGCCCCATCTTTATATATCCTAAGAAACACTAATCCTAGGTTATT
GCTAGCCAAAATATTTTTGTCTGAGTAGTGTCACTGGGCCAAAAGATAGATCAGGACGACAGCCTTTAGTTTTT
CTGAAATCACCAGGTGAGGCACAAGGAGAAAAGGTTCTGGATACTGACTAACTGGGTGGGTGGATCTAGCCAG
GAGAAAGACAGTAACATGTGTTCTGTACTTTCTGGGAAGATCCCTGAAGCCATCACAGAGGCTCCCCAAGTTCTG
AGTCGCCCATCTGTTGCTGTGGGAGTGTGAACGGATCGCTGAAGGAGAGGGAGCTTTGCTCTCTCTAGGTGGCA
AGTTTCTGGGCTCTCTGTGTTGCCTCCCTCTGGCTTCTTCTCCCGTGCCCTCTCCCCGTGTGCCCGAGGGGA
TCAGGGATCCTCACCTCCTGAGGCCAGTGGGGAAGAATGAACATGGCTTCATCCAGGTTAACTGATGCTGCCA
TTTGGCCAGCCTCTTCCATCCAGCCCTGTCACTGAGCCAGGTCTGGTGCAACTGCTGCAGGATGCCTGTAGTA
GGGAAGTCTGGAAGTGTATTGGGCTGAGGTGGGATTTTCCCTCCCCACAGTGCAGTGAAGTGGAGGGTGGTGA
GGGAGCCATGCTGCTGAATTCTGGTTGGCATTTCCTCATTTATGTAAATGGGGTGTGGGTAGGGCAGACTCTGC
TTGGGTTTGGTTGTAAGATAAACCTGGAGGAGAAGCACAGTTGTCCCATGAATTATTTAGCAAAAAGTACTGT
AAATAACTTTTTTGTCTTTTGTCAAATAAAATTTTTTTTTTGTTTTTTAAGCAG

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FIGURE 5757

AGAGTTTCGGAGGCGGTGACCGTGACGTAGAAAGGTGGAGACCGCTTCACCCTGATCAGGGAGTATCGGCTGCGGG
TGCGCAAGGCGTCCAGGAGTGACCTGGGGCTGTGGAGAGCGACCCGTGGCCTTGTTGTTTTAGAGTTTTACCACCTA
GGATGACTTCAGTGACTAGATCAGAGATCATAGATGAAAAAGGACCAGTGATGTCTAAGACTCATGATCATCAAT
TGGAATCAAGTCTCAGTCCTGTGGAAGTGTTTGCTAAAAACAATCTGCCAGTTATCAAGACAGGAGGCAATCCTGG
CGGCGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGCTGCATCCCATTCACCAGGGCATCACAGAGCTCAGC
CGGTCTATCAGTGTCGATTTAGCAGAAAGCAAACGGCTTGCGTGTCTCCTGCTTTCCAGTTTCCAGTTCTCTATT
CAGAAACTTGAACCTTTTCTAAGGGACACTAAGGGCTTCAGTCTTGAAAGTTTTAGAGCCAAAGCATCTTCTCTT
TCTGAAGAATTGAAACATTTTGCAGACGGACTGGAAACTGATGGAACTCTACAAAAATGTTTTGAAGATTCAAAT
GGAAAAGCATCAGATTTTTCTTTGGAAGCATCTGTGGCTGAGATGAAGGAATACATAACAAAGTTTTCTTTAGAA
CGTCAGACTTGGGATCAGCTCTTGCTTCACTACCAGCAGGAGGCTAAAGAGATATTGTCCAGAGGATCAACTGAG
GCCAAAATTACTGAGGTCAAAGTGGAACCTATGACATATCTTGGGTCTTCTCAGAATGAAGTTCTTAATACAAAA
CCTGACTACCAGAAAAATTACAGAACCCAGAGCAAAGTCTTTGACTGTATGGAGTTGGTGATGGATGAACTGCAAG
GATCAGTGAAACAGCTGCAGGCCTTTATGGATGAAAGTACCCAGTGCTTCCAGAAGGTGTCAGTACAGCTCGGAA
AGAGAAGCATGCAACAATTAGATCCCTCACCAGCTCGAAAACTGTTGAAGCTTCAGCTACAGAACCCACCTGCCA
TACATGGATCTGGATCTGGATCTTGTGAGAGTTTCTGCCACAAGGTGCCCAAGAGGAGAGGAA
TGGAAGAGTGCCCCAGCACGTGGTGACTGCGTGATTTCTGCTCGTTGCCTTTGAAGATAACTGGCAGGACTGAC
TGTAAGAACTTTGACTTTTTTCAAAAAGTGATGGAATTTGTACATCCAAATGAATATTGTATAGACAATTTTCC
CAGGAATGTGCAAAATGCTTGAAAGTTCAAACCTCTTTTTTGAAATGATCTTCAGATCCAGTGGCCCATTTCTTT
ATCTTTATCCTGTGAAGGTGTTTTTCAGGTTTTGAAACAATCCAAAAATCATTTAGGACCAAGTCTAAGGAAACA
TTTTAGTGGCCAAGTTGGATTCCGATTGTAAAGGAATGATACTAATTTTCTAGCATGGCTCTGAAGGTGATTTTA
GGTAGAAGAGTTTTGAGGCTGGGCGCAATGGCTCACGCCTGTAATCCTAGCATTTTGGGTGACTGAGGCGGGTGG
ATTGCTTGAGCCAGAAAGTTGAAGACCAGCTGAGAAATAAGGTGAAACCCTGTCTACAAAAAATACAAAAAGTT
AGCTGGGTGTGGTGGCGTGTGCCTGTAGTGCTAGCTACTCAGAAGGCTGAGGTGGGAGGATTGTTTGAGCCAGG
AGGTTGAGGCTGCAGTGAGTTCTAATTGCGCCACTGCACTCCAGCCTGAGCGACAGAGTGAGACACTGTCTTAAA
AAAAATTAAAAATTGT

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FIGURE 5758

MIINWNQVSVLWKCLLKQSASYQDRRQSWRRASMKETNRRKSLHPIHQGITELSRSISVDLAESKRLGCLLLSSF
QFSIQKLEPFLRDTKGFSLESFRAKASSLSEELKHFADGLETDGTLQKCFEDSNGKASDFSLEASVAEMKEYITK
FSLERQTDQQLLLHYQQEAKEILSRGSTEAKITEVKVEPMTYLGSSQNEVLNTPDYQKNYRTRAKSLTVWSW

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FIGURE 5759

AGCGTTGCGAGACGGTCCGTTCCAAGTGGGCCTGGGCGCGGGGGAGAGGCGGGTCTGTCTCGGGAACCTGCAAGG
CCCTGTGAGCGGGAGGACTGGGATCCCCGGCCGCGGGCTGCTGGAAGCGTCTGAAGCTCAGCGGGGCCGCGGACACTG
ACCTGTGCTTAGAACTCATCTGGCCCCGAGAGCCTGCCGCGAGTCCCTGGCGTCCCCCTGTGGCGGGCTCTTGGA
GCCACTTTCCCAGCGGAAGTCAGCCCCGCGGGCTCGGACTCCGGCGGGACCTGCTCGGAGGAATGGCGCCGCCGGG
TTCAAGCACTGTCTTCTGTGGCCCTGACAATCATAGCCAGCACCTGGGCTCTGACGCCCACTCACTACCTCAC
CAAGCATGACGTGGAGAGACTAAAAGCCTCGCTGGATCGCCCTTTCACAAATTTGGAATCTGCCCTTCTACTCCAT
CGTGGGACTCAGCAGCCTTGGTGCTCAGGTGCCAGATGCAAAGAAAGCATGTACCTACATCAGATCTAACCTTGA
TCCCAGCAATGTGGATTCCCTCTTCTACGCTGCCAGGCCAGCCAGGCCCTCTCAGGATGTGAGATCTCTATTTTC
AAATGAGACCAAAGATCTGCTTCTGGCAGCTGTCTAGTGAGGACTCATCTGTTACCCAGATCTACCATGCACTGTC
AGCTCTAAGTGGCTTTGGCCTTCCCTTGGCATCCCAAGAAGCACTCAGTGCCCTTACTGCTCGTCTCAGCAAGGA
GGAGACTGTGCTGGCAACAGTCCAGGCTCTGCAGACAGCATCCACCTGTCCCAGCAGGCTGACCTGAGGAGCAT
CGTGGAGGAGATTGAGGACCTTGTGCTCGCCTGGATGAACTCGGGGGCGTGTATCTCCAGTTTGAAGAAGGACT
GGAAACAACAGCGTTATTTGTGGCTGCCACCTACAAGCTCATGGATCATGTGGGGACTGAGCCATCCATTAAAGGA
GGATCAGGTCATCCAGCTGATGAACGCGATCTTCAGCAAGAAGAACTTTGAGTCCCTCTCCGAAGCCTTCAGCGT
GGCCTCTGCAGCTGCTGTGCTCTCGCATAATCGCTACCACGTGCCAGTTGTGGTTGTGCCTGAGGGCTCTGCTTC
CGACACTCATGAACAGGCTATCTTGCGGTTGCAAGTCACCAATGTTCTGTCTCAGCCTCTGACTCAGGCCACTGT
TAAACTAGAACATGCTAAATCTGTTGCTTCCAGAGCCACTGTCTCCAGAAGACATCCTTCAACCCTGTAGGGGA
TGTTTTTGAATAAATTTTCATGAACGTCAAATTTTCCAGTGGTTATTATGACTTCCTTGTGCGAAGTTGAAGGTGA
CAACCGGTATATTGCAAATACCGTAGAGCTCAGAGTCAAGATCTCCACTGAAGTTGGCATCACAATGTTGATCT
TTCCACCGTGGATAAGGATCAGAGCATTGCACCCAAAACCTACCCGGGTGACATACCCAGCCAAAGCCAAGGGCAC
ATTCATCGCAGACAGCCACCAGAACTTCGCCTTGTTCTTCCAGCTGGTAGATGTGAACACTGGTGCTGAACTCAC
TCTCACCAGACATTTGTCCGACTCCATAACCAGAAGACTGGCCAGGAAGTGGTGTGTTGTTGCCGAGCCAGACAA
CAAGAACGTGTACAAGTTTGAAGTGGATACCTCTGAAAGAAAGATTGAATTTGACTCTGCCTCTGGCACCTACAC
TCTCTACTTAATCATTGGAGATGCCACTTTGAAGAACCAATCCTCTGGAATGTGGCTGATGTGGTCATCAAGTT
CCCTGAGGAAGAAGCTCCCTCGACTGTCTTGTCCAGAACCCTTTTCACTCCAAAACAGGAAATTCAGCACCTGTT
CCGCGAGCCTGAGAAGAGGCCCCCACCCTGGTGTCCAATACATTCAGTCCCTGATCCTCTCGCCGTTGCTTCT
GCTCTTCGCTCTGTGGATCCGGATTGGTGCCAATGTCTCCAACCTTCACTTTTGCTCCTAGCACGATTATATTTCA
CCTGGGACATGCAGCTATGCTGGGACTCATGTATGTCTACTGGACTCAGCTCAACATGTTCCAGACCTTGAAGTA
CCTGGCCATCCTGGGCAGTGTGACGTTTCTGGCTGGCAATCGGATGCTGGCCAGCAGGCAGTCAAGAGAACAGC
ACATTAGTTCCAGAAGAAAGATGGAAATCTGAAAACCTGAATGTCAAGAAAAGGAGTCAAGAACAATTCACAGTA
TGAGAAGAAAAATGGAAAAAAAACCTTTATTTAAAAAAGAAAAAGTCCAGATTGTAGTTATACTTTTGCTTGT
TTTTTCAGTTTCCCAACACACAGCAGATACCTGGTGAGCTCAGATAGTCTTTTCTCTGACACTGTGTAAGAAGC
TGTGAATATTCTAACTTACCCAGATGTTGCTTTTGAAAAGTTGAAATGTGTAATTGTTTTGGAATAAAGAGGGT
AACAAATAGG

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FIGURE 5760

[illegible]

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FIGURE 5761

MYCLQWLLPVLLIPKPLNPALWF¹SHSMFMGFYLLSFLLERKPCTICALVFLAALFLICYSCWGNCFLYHCSDSPL
PESAHDPGVVGT

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FIGURE 5762

TAGGTGGCGGGCGGGTACTTAAGGCGCGGCCACCGCGGCTGCGGCAGTGCGCCCAACAGCGGACTCCGAGACCAG
CGGATCTCGGCAAACCCCTCTTTCTCGACCACCCACCTACCATTCTTGGAACCATGGCGGCAGTGGCGGCGGCCTC
GGCTGAACTGCTCATCATCGGCTGGTACATCTTCCGCGTGCTGCTGCAGGTGTTCCCTGGAATGCTGCATTTACTG
GGTAGGATTTCGCTTTTCGAAATCCTCCAGGGACACAGCCCATTTGCGAGAAGTGAGGTGTTTCAGGTACTCCCTGCA
GAAGCTGGCATAACACGGTGTGCGCGGACCGGGCGGCAGGTGTTGGGGGAGCGCAGGCAGCGAGCCCCAACTGAGG
CCCCAGCTCCCAGCCCTGGGCGGCCGTATCATCAGGTGCTCCTGTGCATCTCGGCCAGCACGGGAGCCAGTGCCG
CGCAGGAATGTGGGGTCCCCTGTGTTCCCTCGCCAGAGGAGCACTTGGCAAGGTCAGTGAGGGGCCAGTAGACCC
CCGGAGAAGCAGTACCGACAATGACGAAGATACCAGATCCCTTCCCAACCCCTTTGCACCGGTCCCCTAAGGGG
CAGGGTCGAGAGAGGAGGGGGGGATAGGGGGAGCAGACCCCTGAGATCTGGGCATAGGCACCGCATTCTGATCTGG
ACAAAGTCGGGACAGCACCATCCCAGCCCCGAAGCCAGGGCCATGCCAGCAGGCCCCACCATGGAAATCAAAACA
CCGCACCAGCCAGCAGAATGGACATTCTGACATCGCCAGCCGACGCCCTGAATCTTGGTGCAGACCAACCGCGT
GCCTGTGTGGCGGGACTGGAGGGCACAGTTGAGGAAGGAGGGTGGTTAAGAAATACAGTGGGGCCCTCTCGCTGT
CCCTTGCCCAGGGCACTTGCAATCCAGCCTCGCTGCATTTGCTCTCTCGATTCCCCTTTCTCTCTACTGCCTCC
CAAGCCCACCCTACTCCAAAATAATGTGTCACTTGATTTGGAACATTTCAAGCAGTAAAAGTAAATGAATCCCAC
CTTTACTAAAACACTTTCTCTGAACCCCCCTTGCCCTCACTGATCTTGCTTTTCCCTGGTCTCATGCAGTTGTG
GTCAATATTGTGGTAATCGCTAATTGTACTGATTGTTAAGTGTGCATTAGTTGTGTCTCCCAGCTAGATTGTA
AGCTCCTGGAGGACAGGGACCACCTCTACAAAAATAAAAAAGTACCTCCCCTGTCTCGCACAGTGTCCCAGGA
CCCTGCGGTGCAGTAGAGGCGCACC

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FIGURE 5763

GGGGAXGGGGGGCAGTGTGGCTGGAGCCGCGGCTGACGGGCCCCGCGGTCTGGGCGTGAGTGCAGGGAAGTGGAGT
ATTTGCTGGGCCGGGTACCAATCGACGTGGGCGAACTTCTGAGCTACCAGCCCAATAGGGGCACAAAACGTCCCCG
GGATGATGAAGAGGAGGAGCAGAAGATGCGTCGGAAACAAACTGGTACTCGAGAACGCGGCCGCTATCGGGAAGA
AGAAATGACTGTGGTGGAGGAAGCGGATGATGACAAAAAAGGCTGCTGCAGATTATTGACAGAGATGGGGAAGA
GGAAGAGGAAGAGGAGGCCATTGGATGAAAGCTCAGTGAAGAAAATGATCCTCACATTTGAAAAGAGATCATA
TAAAAACCAAGAAATTGCGGATTAAGTTTCCAGACAATCCAGAGAAGTTTCATGGAATCCGAGCTGGACCTAAATGA
CATCATTCAGGAGATGCACGTGGTGGCCACCATGCCAGACCTGTACCACCTTCTGGTGGAGCTGAATGCTGTACA
GTCGCTTCTCGGCTTGCTCGGACACGATAATACAGATGTGTCCATAGCTGTGGTTCGATTTGCTTCAGGAATTAAC
AGATATAGACACCCTCCATGAGAGTGAAGAGGGAGCAGAAGTGCTCATCGATGCTCTGGTGGATGGGCAGGTGGT
AGCACTGCTGGTACAGAATCTGGAGCGCCTGGATGAGTCTGTGAAAGAGGAGGCAGATGGCGTCCACAACACTCT
GGCTATTGTGGAAAACATGGCTGAGTTCGGCGCTGAGATGTGTACAGAGGGTGCCAGCAGGGTCTTCTACAGTG
GCTGTTGAAGAGGCTGAAGGCAAAGATGCCTTTTGATGCCAACAACTGTATTGCAGTGAAGTCTGGCCATATT
GCTCCAGGACAATGATGAAAACAGGGAATTGCTTGGGGAGCTGGATGGAATCGATGTGCTTCTTCAGCAGTTATC
CGTGTTTAAAAGACACAATCCCAGCACGGCTGAGGAGCAGGAGATGATGGAGAATCTGTTTGATTCCCTCTGCTC
CTGTCTAATGCTTAGTTCCAATCGTGAGCGCTTCTGAAGGGCGAGGGTCTTCAGCTGATGAATCTCATGCTCAG
GGAAAAGAAGATCTCCCGGAGCAGTGCCCTGAAAGTGCTGGACCATGCCATGATTGGCCCCGAAGGCACAGACAA
CTGCCATAAGTTTGTGACATTCTTGGCTTACGAACCATCTTTCCCTCTTTATGAAATCTCCAGGAAGATCAA
GAAAGTGGGAACCACTGAGAAGGAACATGAAGAGCATGTCTGTTTCGATCCTGGCTTCCCTCCTGCGGAACCTGAG
AGGGCAGCAGCGGACCCGGCTTCTGAATAAATTCACTGAAAATGACAGTGAGAAGGTTGACAGACTAATGGAGTT
GCATTTTAAATATCTGGGTGCAATGCAGGTGGCGGACAAGAAGATTGAAGGGGAAAAACACGACATGGTCCGGCG
AGGAGAGATCATCGACAATGACACCGAGGAGGAGTTCTACCTCCGGCGCCTGGATGCGGGGCTCTTTGTTCTCCA
GCACATCTGCTACATCATGGCCGAGATCTGCAATGCCAATGTCCCCAGATTGCCAGAGGGTTCACCAGATCCT
AAACATGCGAGGAAGCTCCATCAAAATTGTCAGGCATATCATCAAGGAGTATGCAGAGAACATCGGGGACGGCCG
GAGCCCGGAGTTCCGGGAGAACGAGCAAAAGCGCATCCTGGGCTTGCTGGAGAACTCTTAGAGGCACCTTGGCCC
TGCGCATCATGGACTCTCTCAGCTTCCCTCCAGGATCAGTTTCTACACAACCTCTGTGTGGCTTTTGGACAAATT
AAAGCTAGTTTTGGTAAAAA

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FIGURE 5764

MDVGELLSYQPNRGTKRPRDDEEEEQKMRRKQTGTRERGRYREEEMTVVEEADDDKKRLLQIIDRDGEEEEEEEE
PLDESSVKMILTFEKRSYKNQELRIKFPDNPEKFMESELDLNDIIQEMHV VATMPDLYHLLVELNAVQSLLGLL
GHDNTDVSI AVVDLLQELTDIDTLHESEEGA EVLIDALVDGQVVALLVQNLERLDES VKEEADGVHNTLAIVENM
AEFRPEMCTEGAQQGLLQWLLKRLKAKMPFDANKLYCSEVLAILLQDNDENRELLGELDGIDVLLQQLSVFKRHN
PSTAEEQEMMENLFDSLCSCMLSSNRERFLKGEGLQLMNLMLREKKISRSSALKVLDHAMIGPEGTDNCHKFVD
ILGLRTIFPLFMKSPRKIKKVGTTTEKEHEEHVCSILASLLRNLRGQQRTRLLNKFTENDSEKVDRLMELHFKYLG
AMQVADKKIEGEKHD MVRRGEIIDNDTEEEFYLRRLDAGLFVLQHICYIMAEICNANVPQIRQRVHQILNMRGSS
IKIVRHIIKEYAENIGDRSPEFRENEQKRILGLENF

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FIGURE 5765

CCTCCCTCGGGCTCCGGTCCCCTGGGTGAGCCCCAGCGCTGGCGGCGTGGGCCCGGGACTGGGCAATGGGTGGCC
TCCCAGGTCGCCGCCCTTCCCGCGGGGCCCCGCCCCCGCCCCGCCCCAAAGCGGGCTATAAGTTAGCGCCGCTCTC
CGCCTCGGCAGTGCCAGCCGCCAGTGGTGCACCTTGGAGGGTCTCGCCGCCAGTGGAAGGAGCCACCGCCCCCGC
CCGACCATGGCCGAGGAGCTGGTCTTAGAGAGGTGTGATCTGGAGCTGGAGACCAATGGCCGAGACCACCACACG
GCCGACCTGTGCCGGGAGAAGCTGGTGGTGCAGCGGGGCCAGCCCTTCTGGCTGACCTTGCACCTTTGAGGGCCGC
AACTACGAGGCCAGTGTAGACAGTCTACCTTCACTGTCTGACCGGCCAGCCCCCTAGCCAGGAGGCCGGGACC
AAGGCCCCGTTTCCACTAAGAGATGCTGTGGAGGAGGGTGAAGTGGACAGCCACCGTGGTGGACCAGCAAGACTGC
ACCTCTCGCTGCAGCTCACCACCCCGGCCAACGCCCCCATCGGCCTGTATCGCCTCAGCCTGGAGGCCCTCCACT
GGCTACCAGGGATCCAGCTTTGTGCTGGGCCACTTCATTTTGCTCTTCAACGCCTGGTGGCCAGCGGATGCTGTG
TACCTGGACTCGGAAGAGGAGCGGCAGGAGTATGTCTCACCAGCAGGGCTTTATCTACCAGGGCTCGGCCAAG
TTCATCAAGAACATACCTTGAATTTTGGGCAGTTTGAAGATGGGATCCTAGACATCTGCCTGATCCTTCTAGAT
GTCAACCCCAAGTTCTGAAGAACGCCGGCCGTGACTGCTCCCGCCGAGCAGCCCCGTCTACGTGGGCCGGGTG
GTGAGTGGCATGGTCAACTGCAACGATGACCAGGGTGTGCTGCTGGGACGCTGGGACAACAACACTACGGGGACGGC
GTCAGCCCCATGCTCTGGATCGGCAGCGTGGACATCCTGCGGCGCTGGAAGAACCACGGCTGCCAGCGCTCAAG
TATGGCCAGTGCTGGGTCTTCGCCGCCGTGGCCTGCACAGTGTGAGGTGCCTGGGCATCCCTACCCGCGTCTGTG
ACCAACTACAACCTCGGCCCATGACCAGAACAGCAACCTTCTCATCGAGTACTTCCGCAATGAGTTTGGGGAGATC
CAGGGTGACAAGAGCGAGATGATCTGGAACCTTCACTGCTGGGTGGAGTCTGGATGACCAGGCCGGACCTGCAG
CCGGGTACGAGGGCTGGCAGGCCCTGGACCCAACGCCCCAGGAGAAGAGCGAAGGGACGTACTGCTGTGGCCCA
GTTCAGTTCTGTGCCATCAAGGAGGGCGACCTGAGCACCAGTACGATGCGCCCTTTGTCTTTGCGGAGGTCAAT
GCCGACGTGGTAGACTGGATCCAGCAGGACGATGGGTCTGTGCACAAATCCATCAACCGTTCCCTGATCGTTGGG
CTGAAGATCAGCACTAAGAGCGTGGGCCGAGACGAGCGGGAGGATATCACCACACCTACAAATACCCAGAGGGG
TCCTCAGAGGAGAGGGAGGCCCTTACAAGGGCGAACCACCTGAACAACTGGCCGAGAAGGAGGAGACAGGGATG
GCCATGCGGATCCGTGTGGGCCAGAGCATGAACATGGGCAGTGACTTTGACGTCTTTGCCACATCACCACAAC
ACCGCTGAGGAGTACGTCTGCCGCTCCTGCTGTGCCCCGACCGTCAGCTACAATGGGATCTTGGGGCCCCGAG
TGTGGCACCAAGTACCTGTCTCAACCTCAACCTGGAGCCTTCTCTGAGAAGAGCGTTCTCTTTGCATCCTCTAT
GAGAAATACCGTGACTGCCTTACGGAGTCCAACCTCATCAAGGTGCGGGCCCTCCTCGTGAGCCAGTTATCAAC
AGCTACCTGCTGGCTGAGAGGGACCTTACCTGGAGATCCAGAAATCAAGATCCGGATCCTTGGGGAGCCCCAAG
CAGAAACGCAAGCTGGTGGCTGAGGTGTCCCTGCAGAACCCTGCCCTGCTGGCCCTGGAAGGCTGCACCTTCACT
GTGGAGGGGGCCGGCCTGACTGAGGAGCAGAAGACGGTGGAGATCCAGACCCCGTGAGGACAGGGGAGGAAGTT
AAGGTGAGAATGGACCTGCTGCCGCTCCACATGGGCCTCCACAAGCTGGTGGTGAACCTCGAGAGCGACAAGCTG
AAGGCTGTGAAGGGCTTCCGGAATGTCATCATTGGCCCCGCTAAGGGACCCCTGCTCCACGCTGCTGAGAGCC
CCCACCTTGATCCCAATCCTTATCCCAAGCTAGTGAGCAAAATATGCCCCCTTCTTGGGCCCCAGACCCAGGGCA
GGGTGGGCAGCCTATGGGGCTCTCGGAAATGGAATGTGCCCTGGCCCATCTCAGCCTCCTGAGCCTGTGGGTG
CCCACTACCCCCCTTTGCTGTGAGGAATGCTCTGTGCCAGAAACAGTGGGAGCCCTGACCTTGGCTGACTGGGGC
TGGGGTGAGAGAGGAAAGACCTACATTCCCTCTCTGCCAGATGCCCTTTGGAAAGCCATTGACCACCCACCAT
ATTGTTTGATCTACTTCATAGCTCCTTGGAGCAGGCAAAAAGGGACAGCATGCCCCCTGGCTGGATCAGGGAAT
CCAGCTCCCTAGACTGCATCCCGTACCTCTTCCATGACTGCACCCAGCTCCAGGGGCCCTTGGGACAGCCAGAG
CTGGGTGGGGACAGTGATAGGCCCAAGGTCCCTCCACATCCAGCAGCCCAAGCTTAATAGCCCTCCCCCTCAA
CCTCACCATTGTGAAGCACCTACTATGTGCTGGGTGCCTCCACACTTGCTGGGGCTCACGGGGCCTCCAACCCA
TTTAATCACCATGGGAAACTGTTGTGGGCGCTGCTTCCAGGATAAGGAGACTGAGGCTTAGAGAGAGGAGGCAGC
CCCCTCCACACCAGTGGCCTCGTGGTTATTAGCAAGGCTGGGTAATGTGAAGGCCCAAGAGCAGAGTCTGGGCCCT
CTGACTCTGAGTCCACTGCTCCATTTATAACCCAGCCTGACCTGAGACTGTGCGAGAGGCTGTCTGGGGCCTTT
ATCAAAAAAAGACTCAGCCAAGACAAGGAGGTAGAGAGGGGACTGGGGGACTGGGAGTCAGAGCCCTGGCTGGGT
TCAGGTCCCACGTCTGGCCAGGCACTGCCTTCTCCTCTCTGGGCCTTTGTTTCTTGTGGTTCAGAGGAGTGATT
GAACCAGCTCATCTCCAAGGATCCTCTCCACTCCATGTTTGAAT

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FIGURE 5766A

CGCTCCTCCGAGATGACGCCGGGGTCGGTGCCCCGGGCGCTGCCCTATCCCCTGGCTCCAGGGCTAGGCGGGACCG
AGGGCTGCCCCAGACAGACGGACCCGCGGACCCACAGACCCGCGCCAGGAGAGGAGCCGCGCCGCCCGCCGCT
GGCAGCCCGTCACCATGGTACCCTCCATCCCTCGACACAGCCATCCAGCATGCCCTGGCGGGCCTCTATCCTCCT
TTCGAGGCCACAGCACCCACCGTCTCTGGGTACGGTGTTCCTGCTCCTGGACTCTGGCTTCCAGGGGGATGGGCTG
AGCTTCCTTCTGGATTCTCTGATCCCTGCCAAGCGCCTGTGTGAGCAAGTGCAGAGAAGCAGCCTGTGCTCCCTAC
TCACACTGCCTCTTCTTACACGAGGGCTGGCCACTCTGTCTGAGGGATGAAGTTGTGGTCCACTTGGCACCCCTC
AACCCTCTCTTATTGCGCCAGGGTGACTTCTACCTCCAAGTGGAGCCCCAGGAGGAGCAGTCTGTCTGCATCATG

ATCAAATGCCTCTCCCTGGACCTCTGCACAGTGGACAAGAAGCCTGTTCCAGAGCCAGCCTACCCTATACTTTTC
ACCCAAGAAATGGCTGGAGGCCATCAACAGTGACTTTGAGGGAAATCCCCTACACAAGTCTTGGTAGCATCAGAA
AATGGGATTGCCCCGTGTGCCTTGGACCAAGATAACCAGCCCAGAGTTTGTGGATGACAGACCCCAAGTAGTGAAT
GCCCTCTGCCAAGCCTGGGGGGCCCTTCCATTAGAGGCACTGGATTGAGCAGCCCTCAAGAGTTGCACCAGGCC
AGCTCCCCAGACAACCAGGTGCTTCCCTGCCAGAGTTTGGCCAAGGGTAAGGGCAGGACATATGGGAGCAAGTAT
CCAGGACTCATCAAGGTGGAGCAAGCCCGGTGTGGGGAGGTGGCTTTCAGGATGGACGAGGTGGTCAGCCAGGAC
TTCGAGGGAGACTATGTGGCTCTCCTAGGCTTTTCCCAAGAGAGCAGAGGAGAGTCTCCAGTAGGGAGGCAGGC
ACATCCAGTGGGTGTACTTCTGGGGCACTAGAGGAGATAGCTGGAACCTAAGGAACTCCCTTATTTCAAAAGATA
CTGCCTCTCTCAGAGGCCAATGAAGGACCTTCTTGGGAAATCGGGCTTGCACAAAGCCAGAAAGCTCTGAGGAG
AGGCCCTATAATTTGGGCTTCAGGAGAAAGGTCAATCTTAAAGCACCCACCCACAAGTCTGAGAAAGGCCGCCAA
GGCTCCTACATGAATGTCTTGGAGACGCACTGGACTGTGCCTCTGGTCTCAGGGCAGGTGTCTCACAAGAGCCA
GCTGCCTCCAAGATGCAGGGACCTCTAGGAAACCCAGAGAATATGGTGCAGCTCAGGCCTGGACCAAGACAAGCC
TCTCTCCCCGCTGTCCCCAGCTTCTCCTGCAGCTGCAGCCTCTGAAACAAAGATAGAGGTGAAGACCAAGAG
AGAAATGGGAGACTTCCCAAGCCATGCCCTGCCCTAGCAGAAACACCTCCTCCCCCTGAGCCCCCACTCCTGGG
CTCAAATTCTCATTCTTGAGAGGGCAGAGGCAACCTCTGTGACCCCGAGAAAGCCTCACTCCAGCACAATGGG
CCCTGGAAAGTCTGTGTTCCCTCTACTCTCTAAACCAACCGAGCCAAATCTTGGGGAAAGCTGGAACAAGT
CAGACCAAAACATCTGGCCAGCCACTGCCCCAGCCCACTGACTGAGGAAAAGGCTGCCTTGCCAGAAGCTTCT
GCAGGCTCCCCAGAAAGAGGCCCCACCCTGGAGGAGGAGCCCCAGGGCCTGAGCCAGGATTGGGGCTCTAGGT
GTCAAGGTTTTTCCGCTCCAGGATAGCATGCCCTGCCAGGTGGCCGGGACAGGGCCGGGCGGCCCTGTCTTGGTG
TCAACTACAGAGGGGGCCTGGGAGGCACCATGGTGCACAGTTTCAGAGGTACCAAGCTACTGTCTACCTGTGT
ACCATCCCCAGGCCTGAAGATAAAGCCAAGGGGCTGGCGGTCTGATTGACGCCAGGAGACAGCCCCACAGCCC
GGTCTGGTCAGCGCCCTGCAGGCCACCCAGGCTCAGGTCCCAGCCTCTATCCGGGCTATTCTCTTCTGGGGGAG
AAGGAGGCGGCTCTCCAGCTGCAGACATTACCTGACGTCCAGGTGGAGGTGCTGACCTCATTGAAGGCCCTCAGC
CACCATGTGGACCCAGCCAGCTGCCCGCAGTCTTGAAGGCCCTTCCCCTACTGCCACACCGAGTGGGTTTCAT
TTCTTCCAGAAGCTGGACCCCTTCTTGTGACCTCCACCAGGCTCTTCCCCTGCTACAAGCTTCCATCGAGGAA
TTCGAGAAGGCCGACCCCTGGGGGGATGCAGGAGGCTACCAGGTGCCTGAGCAAGTCCAAGGAGGCTGATGGAG
GCTGTGCTGAGGGACCCCGCCTACTGGGCTCCAGCGGGAAGGTGGAGCCACCCTGGCCAGGCTGCAGCATGAT
GCCAGCAGGCTGGACTTCAGCCCTGATGTGAGGAGCCATCTGGCTGCAGCCACTGCCTTGTACAGCCTTGTGGAC
GAGCAGCTTCATGTTCTGGTCACCGCTTCCAACAGCCTCCTGGGGAAGCTGGAGCTCCGTGTCCGCTGGGCCGC
CTGGAAGCTGCCATTACCAGGTGAGCGACTGGATGGAGCAGGAAGGAAGCGGTGCCTGCAATCACTGACCCCC
AAGGATGGAAGTTTGGAGACAGTGGAGAAAGCCACGCAGAAATTTGAGAAGTCTTCTCCTCAGGCTGCAGCCAG
TACCGCCGAGGCCTGGAGCTGTCCAAGCAGGCCGCTCAGCTGGGAGCTACAGCCAGAGGGGCTGGGGAGGCAGAA
CGTGCAGAGTTCCAGAGCTGGCAGCCTTTGCCTCTACCCAGCGGGCCTTCCAGGCTGAGCTGACCCACTTTTAC
ATGGCGGCCGAGCGGCAACGCACGGACCTCGAGACGCTGCTCCACCTGCACCGCTTCTGCAAGAGGATGACCTGG
TTCCACATGGACTGTGAGGACCTGATGGCCAGCTCAGGCTGGACAAGACCTCAAGGGTCAGTCTTGGGGACAG
CGCCGCTTCCACCGCTACCTGCAGCGACTGGCATCTGAGTTCCCTGCTGAGAAGCTCGCAGCCGTGGGGCTGCAG
GTGGCCTCCCTGAGCCGGGAGGCTGGGCCAGGAGCTATGGGAGGAGGCCCGGATCAGGCATGAGGAGATCCGG
ATGCTCCTGGAGAAGGCACTGACCCACAGCTCTTGGCCAGAGGCTCCAGCTGCTCACTCAGCGCGCCAGAACGA
AGAGGGGTGGCAGCCAAGGGCCAGGGTGTGAGTGTAGAGGTCACTTCCAAGGGGAGGTGGGATCAGCCTCCACTA
GACTCACTGGGCATGGACCAATTGCCAAAGTCTATTGGCCTCCTGGGCCCCCCAGAGGGGAACAGAACAGAAGT
TTCCAGGCAGGCTCTCCACCCAGGAAGCTGGCCAGGCTGCAGAGGCTGAAGACGGCAAAGGCTCCACAGCTG

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FIGURE 5766B

CCTGACCCTGCCCCGCGAGCATTGTGCTTGCCACCACCTTCTTCCGGCAGCAGCCCCCAGGCAGAGCCAGGTCCCT
CGCCTCACTGGGGGCGAGCTTCTCCTCAGAGGGGACAGACTCACAGACATCCCTTGAGGACTCACCCAGACAAGT
CCCCTTGCCCTCCCTCTAGCTGAGAGGCCCCCTTCACTCGCACCAGCCTCCAGGAGCACTGGGCCAGGGCCAGCTG
GAGGGGTAGCTGGGAGCTCTGGTCAGTCCCAGTGAGACGTACCATGGAGCACTGGTTTTACATTCTGCCTCTGC
TGGGAGGATGAGAACTGTGACCTGCCCCCTGGCTCCAGAAAACCTCTGGAAGACCCGATCTTCACCCATGCAGAA
TAGCAAGAGTGGGCGTCAGAACAGGGGCACAATAAATGGTGTGATTGGCTCCATCCCTCCAGGCTCTCATTGTGG
AAAGACCTGTCTGGCACAGACCCCTCCAGAGGTCTCGCTCGCAGGCAGGCAGACACCCACCTGCAGCTCAGGAACA
TACACAGCTCTCCCTCGGGTACGAGGGCCAGTGTTGCCCTTAGGCAGAACTCTCGGGGAGATTGGGGAGTGCTT
CCTTGTCTTGATTCCAGGAAAATGGACCCTGAGATGAGGATTTAAGGATCAGTGTGTTTGGTGCTGATCCAGGA
ACCTCTGCTGGGGGAGTAGGAGGCGAATCTGCAAAGGGAATAAAGAGTATGTTGTCAAGCAAATTTTCTTTTTT
TAATTTTTAAACTTCATTGTATTTTATGTTTAGAGATGGGGCCTCACTACATTGCCAGGCTGGTCTCAAACCTC
CTGGGCTCAAGTGATCCTCTTGCTTGGCCTGCCAAAGTGCTGGGATTGCCTTTTCCGCCACCCCCCGACCC
CACCAGAGACAGGGTCTCACTCTGGTGTCCAGGCTGGAGTGCAATCATAGCCTTAAATTCCTGGGTT
CAACCAATCCTCCACCTCAGCCTCCTAAGTAGCTGGGACTACAGTTATGCACCACCATGCTCAGCTTATTATTT
ATTTATTTTTGTAGACATGGGGTCTTGCTATGTTGCCAGGCAGGCTGATCTCAAGCTCAAGTGATCCTCTGGA
CTCAGCCTCCCAAAGTGCTGGGATTATACGTATGAGCCACTGTGCCACCCCTCATACAAATTTCCATGTTGGCA
ACTGTAGCTGGATCTTCTGGAGATCTCTGAAAGACAGCATGGAATCCTTGAACACCCCTGAGGCGTGAGGCAT
CCAGAGCATTATCTGCCAACCCCTCAGGAGCTGGCACTCGTAGACAGCACGCACAGCCAGCTCCATTGGTCTTGG
CAAAGGAATTGCCTCCTGGAGCCAGAGGCCGGTTCCTGTGCTTAGAAAGGAAGGACATGCTTCTGTGCTCCCT
GTCTCACAAAGCCCTCTCAGCAGGCATGGGACCTTCATTCTCAAGTTCAAGGAACCCGTGGGAACCTTGCTCTTG
TCCTCAGAGAGAATCCTCTCCGCCCTAGAGGTCCCTCCTCTCTCACCTCCCCACCAAGCCTCCCTGAACTCA
ATGCTTCTGTCCCTTCCCTGCCCAACTTCCACTTCTCTATGCCAGCCTCTGTGGCCAGTACCATTGGGGTT
CTGTGGGCAGCTGGGTCTGCTGGTGGTGGGGACCGTGGGAAGGGCCCTATCTGTGGATCTTAGATGGAGCATCCA
GAAGCCCCACCCCTTCATACTGGCCAGAGTGGCCCTGCCAGCGCCTCTCTGGAGTGTCATTAAAGCTGAAAGTGTT
TGCCTTACCTCTGCAGTAGGATGCATTACTGAAGTGGCCTCTTGGTCACCTAGCTCTGAATTTCTGGCTCCAG
AAAGAGGCTGTGGGGCACAGGTCCCCACAATGAGGCTGTGAAGGGGAGAGAGGCAGGCCTGGGCCAGGCACAGG
AGGACAACCTAGGGCTTCTCAGGAGCTGTCTCAGCCAAGAGTCACACACTTGATACCTAAAATGGCTTCAGGAATC
TTCCAAGACTGAAGACTTCCCCAGGTGTGGTCTAGGGCCTGCCTGCCTCAGAGCCATGAGCAGAGCCGGTCAAAA
GGCTTCTTAGGGAATCCTACCCAGACATTAAAATAGACTCTTGGTGTGGCAGGTGGCTGGAATCTGCGTTTGT
AGCCAAGTGCTCTTCTGTGTGACTCAGCAAAGTGGGGGTGCATTGGGGAACACCCGGGGCTGGGGCCTGAGTC
CTCCACCCAAAGCCAGGTTTGATTCTTGCAATCCCCCTCCCTGCCTTCCATCCAGACAGGCCCAAAGATGCAAGAG
GCGTTGATCAGCCATCTCCATCCATGCCTGTTGCCTCAGAGAGGGCCGACGGCTTTTAAATGCTGTTGCCATA
GCAACAGCATCCAGCCAGTGGGTACCACAGGCAGGGAGCCACAGAACTGGGGTGTGGGATGGAACTGACTTG
TGAGAGACCACAGCTACTGCTAGAAGGAAGGGGGGCAAAGCGGGCACAGGTAATCTAAGAATACTTGGGCGGGAG
GAGTCCCCAAGGTTACCTTGTGCATCCCTCTGTCCCCAGAAAGAACTGTACCCCAACAATCTCTCCCTCACTGC
ATCCCTGGGGAAGAAGGAATGCAGAAATGAAATGTCATAATGAGTAACAAATGTATAAAAAATATCGAATAATAA
CAGCT

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FIGURE 5767

MIKCLSLDLCTVDKKPVPEPAYPILFTQEWLEAINSDFEGNPLHNCLVASENGIAPVPWTKITSPEFVDDRPQVV
NALCQAWGPLPLEALDLSSPQELHQASSPDNQVLPQAQSLAKGKGRITYGSKYPGLIKVEQARCGEVAFRMDEVVSQ
DFEGDYVALLGFSQESRGESPSREAGTSSGCTSGALEEIIAGTKETPLFQKILPLSEANEGPSLGNRACTKPESSE
ERPYNLGFRRKVNKAPTHNSERPPQGSYMNVLLEDALDCASGLRAGVSQEPAASKMQGPLGNPENMVQLRPGPRQ
ASSPRLSPASPAAAASETKIEVKTKERNGRLPKPMPCPSRNTSSPEPPTPGLKFSFLRGQRQPSVTPEKASLQHN
GPWKVLCSLYSPKPNRAKSLGKAGTTQTKTSGPATAPSPLTEEKAALPEASAGSPERGPTLEEEPPGPEPRIGAL
GVKVFRRSRIACLPGGRDRAGRPLLLVSTTEGAWEAPWCTVSEVTKLLSYLCTIPRPEDKAKGLAVLIDARRQPPQ
PGLVSALQATQAQVPASIRAILFLGEKEAALQLQTLDPVQVEVLTSKALSHHVDPSQLPAVLEGPFPYCHTEWV
HFFQKLDPFLADLHQASSLLQASIEEFKADPPGGMQEATRCLSKSKELMEAVLRDPGLLGLQREGGATLARLQH
DASRLDFSPDVRSHLAAATALYSLVDEQLHVLVTASNSLLGKLELRVRLGRLEAAIHQVSDWMEQEGRRCLQSLT
PKDGSLETVEKAHAEFENFFLQAAAQYRRGLELSKQAAQLGATARGAGEAERAEPPELAFASTQRAFAELTHF
YMAAERQRTDLETLLHLHRFCKRMTWFMHDCQDLMAQLRLDKTSRVSPGDQRRHLHRYLQRLASEFFPAEKLAAVGL
QVASLSRAGLGQELWEEAIRHEEIRMLLEKALTHSSCPEAPAAHSARPERRGVAAKGQGVSVSEVTSKGRWDQPP
LDSLGMDDLPKSYWPPGPPRGEQNRTFQAGSPPQEAGQAAEAEDGKGSCLKLPDPAREHLLATTFFRQQPFRQSQV
PRLTGGSFSSEGTDSQTSLEDSPQTSPLASL

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FIGURE 5768

AGGCCTTGAGGTTTTGGCAGCTCTGGAGGATGAGAGAGAACATGGCCAGGGGCCCTTGCAACGCGCCGAGATGGG
CGTCCCTGATGGTGCTGGTCGCCATAGGCACCGCCGTGACAGCGGCCGTCAACCTGGCGTCGTGGTCAGGATCT
CCCAGAAGGGCCTGGACTACGCCAGCCAGCAGGGGACGGCCGCTCTGCAGAAGGAGCTGAAGAGGATCAAGATTC
CTGACTACTCAGACAGCTTTAAGATCAAGCATCTTGGGAAGGGGCATTATAGCTTCTACAGCATGGACATCCGTG
AATTCCAGCTTCCCAGTTCCCAGATAAGCATGGTGCCCAATGTGGGCCTTAAGTTCTCCATCAGCAACGCCAATA
TCAAGATCAGCGGGAAATGGAAGGCACAAAAGAGATTCTTAAAAATGAGCGGCAATTTTGACCTGAGCATAGAAG
GCATGTCCATTTTCGGCTGATCTGAAGCTGGGCAGTAACCCACGTCAGGCAAGCCCACCATCACCTGCTCCAGCT
GCAGCAGCCACATCAACAGTGTCCACGTGCACATCTCAAAGAGCAAAGTGGGGTGGCTGATCCAACCTCTTCCACA
AAAAAATTGAGTCTGCGCTTCGAAACAAGATGAACAGCCAGGTCTGCGAGAAAGTGACCAATTCTGTATCCTCCG
AGCTGCAACCTTATTTCCAGACTCTGCCAGTAATGACCAAAATAGATTCTGTGGCTGGAATCAACTATGGTCTGG
TGGCACCTCCAGCAACCACGGCTGAGACCCTGGATGTACAGATGAAGGGGGAGTTTACAGTGAGAACCACCACA
ATCCACCTCCCTTTGCTCCACCAGTGATGGAGTTTCCCGCTGCCCATGACCGCATGGTATACCTGGGCCTCTCAG
ACTACTTCTTCAACACAGCCGGGCTTGTATACCAAGAGGCTGGGGTCTTGAAGATGACCCCTAGAGATGACATGA
TTCCAAAGGAGTCCAAATTTGACTGACAACCAAGTTCTTTGGAACCTTCCTACCTGAGGTGGCCAAGAAGTTTC
CCAACATGAAGATACAGATCCATGTCTCAGCCTCCACCCGCCACACCTGTCTGTGCAGCCCACCGGCCTTACCT
TCTACCCTGCCGTGGATGTCCAGGCCTTTGCCGTCTTCCCAACTCCTCCCTGGCTTCCCTCTTCTGATTGGCA
GCACACAACTGGTTCCATGGAGGTGAGCGCCGAGTCCAACAGGCTTGTGGAGAGCTCAAGCTGGATAGGCTGCT
CCTGGAAGTGAAGCACTCAAATATTGGCCCTTCCCGTTGAATTGCTGCAGGATATCATGAACTACATTGTACC
CATTCTTGTGCTGCCCAGGGTTAACGAGAACTACAGAAAGGCTTCCCTCTCCCGACGCCGCCAGAGTCCAGCT
CTACAACGTAGTGCTTCAGCCTCACCAGAACTTCCTGCTGTTCCGTGCAGACGTTGTCTATAAATGAAGGCACCA
GGGGTGCCGGGGGCTGTGAGCCACACCTGTTCTGATGGGCTGTGGGGCACCGGCTGCCTTTCCCCAGGGAATCC
TCTCCAGATCTTAACCAAGAGCCCCTTGCAAACCTTCTTCGACTCAGATTCAGAAATGATCTAAACACGAGGAAAC
ATTATTCATTGGAAAAGTGCATGGTGTGTATTTAGGGATTATGAGCTTCTTCAAGGGCTAAGGCTGCAGAGAT
ATTTCTCCAGGAATCGTGTTCATTGTAACCAAGAAATTTCCATTGTGCTTCATGAAAAAAACTTCTGGTT
TTTTTCATGTG

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FIGURE 5769

GCGCTCCAAGATGCGGGCGAACGTGTTCCCGTTCCGCGACGCCCGTGCCGCACCGGACCCAGTGCTGGAGGCCCGG
CCCGGTGGCACACGGGGCCACTGCCGGTACCGCTGGTGCTGGACAACGGGTCGTTCCAAGTCCGCGCTGGCTGGGC
GTGTCCCGGGCAGGACCCAGGTCCCGAGCCGCGCCTGCAGTTCCGCGCGGTGTGCGCCCCGCGGTCTGTGGCGGGGC
ACGGGGCGCGTCGGGGCCCGCAGGTGGGGAAACGCTCTGGGCAGCCTGGAGCCACTGCGCTGGATGCTGCGCTCGCC
CTTCGACCGCAACGTGCCGGTCAACCTGGAGCTTCAGGAGTTGCTGCTGGACTACAGCTTCCAGCACCTGGGTGT
CTCCTCACAGGGCTGTGTTGATCATCCCATAGTTTTGACAGAAGCTGTGTGCAACCCACTGTATTACGGCAAAT
GATGTCTGAGCTTCTTTTGTAGTGCTACGGGATTCCCAAGGTTGCCTATGGAATAGACAGCCTCTTCAGCTTCTA
CCACAATAAGCCAAAGAACTCGATGTGCAGTGGGCTAATCATTTTCATCTGGATACCAAGTGATGCTGCTGCTGCT
CATCTTAGAAGGGAGATTAGATGCTAAAACTGCAAGCGCATCAATCTTGGAGGAAGCCAAGCAGCTGGTTACCT
CCAGCGTCTCCTCCAGCTGAAGTACCCTGGGCACCTGGCAGCCATCACCTCAGCCGCATGGAGGAGATTCTGCA
TGAGCACAGCTACATCGCTGAGGATTATGTGGAAGAATTACACAAATGGCGGTGCTCCTGATTATTATGAGAATAA
TGTCACAAGATGCAGCTCCCATTTTCCAGCAAGCTCCTGGGCAGCACTCTGACCTCTGAGGAGAAACAAGAAAG
GCGGCAGCAGCAATTGCGGCGGCTGCAGGAGCTCAATGCCGCGCGCGGGAGGAGAAGCTGCAGCTGGATCAGGA
GCGTCTGGACCGACTGCTATATGTGCAGGAACCTCTAGAGGATGGCCAGATGGATCAGTTTCACAAAGCTCTGAT
AGAGCTGAATATGGACTCCCCAGAAGAGCTGCAGTCTACATCCAGAAGCTCAGTATAGCAGTGGAGCAGGCTAA
GCAGAAAATCCTCCAAGCGGAAGTCAACCTCGAGGTGGATGTGGTAGACAGCAAGCCAGAGACCCCTGACCTGGA
GCAGCTGGAGCCGTCTTTGGAAGATGTGGAAGCATGAATGATTTTGATCCCTTGTTTTTCAGAGGAAACACCTGG
AGTGGAAGAAGCCGGTCACCACTGTTTCAGCCCGTGTTTAACTTGGCAGCATATCATCAGCTATTTGTTGGGACAGA
AAGAATTCGAGCTCCAGAGATTATTTTCCAGCCATCTCTCATAGGAGAAGAACAGGCTGGGATTGCAGAGACTCT
TCAGTACATTCTGGACAGGTACCCAGAGGACATTAGGAAATGCTGGTTCAGAACGTTTTCTCACTGGCGGGCAA
CACGATGTATCCTGGCATGAAAGCCAGAATGGAGAAGGAAGTGTGGAGATGAGACCCCTCCGGTCTTCTTTTCA
GGTTCAACTTGCCCTCGAACCCCTGTGCTGGATGCCTGGTACGGTGCTCGTGACTGGGCCTTGAACCACCTAGATGA
TAATGAAGTTTGGATCACCAGGAAAGAGTATGAAGAAAAGGGAGGAGAGTACCTCAAGGAGCACTGTGCTTCCAA
CATCTATGTCCCCATCCGCTGCCGAAGCAGGCCTCCGCTCCTCAGATGCCAGGCATCCAGCAAGGGCTCCGC
TGCTGGTGGAGGTGGTGCTGGTGAGCAGGCATAGCAGAGGCCCTCCAGAGAGACTGCCCTGCACGCCATGCCTTG
GGCCACGTTGGCAGTGTGACAGGACTGTGATTGTGCTAGATGTACCTGCCCAAGTCTGCTGGTCACATTTGGCAG
CAAAATGGATTTCTCCTGGGGAGAACAAAGTTAAGGGACACTGAGACCTGCCCTTCAGAATTCGGTTCACCTGGG
GGCTTCTGTGGTAGAGACTAACTGGCCTTCTGATGTCTTTGTTCAACTGTGGCCAGCTGTGGCATCAGCTTCCTG
GAGCAGTAAATGAAGACAGAGTGGAGGACACAAATGTACAAAATGCACAAGACTGATTCTTACCACATTTTAGT
CTTCTTGTTTT

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FIGURE 5770

MAANVFPPRDARAAPDPVLEAGPVAHGPLPVPLVLDNGSFQVRAGWACPGQDPGPEPRLQFRAVCARGRGGARGA
SGPQVGNALGSLEPLRWMLRSPFDRNVPVNLELQELLLDYSFQHLGVSSQGCVDHP IVLTEAVCNPLYSRQMMSE
LLFECYGIPKVAYGIDSLFSFYHNKPKNSMCSGLIISSGYQCTHVLP ILEGR L DAKNCKRINL GGSQAAGYLQRL
LQLKYPGH LAAITLSRMEEILHEHSYIAEDYVEELHKWRCPDY YENNVHKMQLPFSSKLLGSTLTSEEKQERRQO
QLRRLQELNARRREEKLQLDQERLDRLLYVQELLEDGQMDQFHKALIELNMDSPEELQSYIQKLSIAVEQAKQKI
LQAEVNLEVDVVD SKPETPDLEQLEPSLEDVESMNDFDPLFSEETPGVEKPVTTVQPVFNLAAYHQLFVGTERIR
APEIIFQPSLIGEEQAGIAETLQYILD RYPEDIQEMLVQNVFLTGGNTMYPGMKARMEKELLEMRPFRRSSFQVQL
ASNPVLD AWYGARDWALNHLDDNEVWITRKEYEEKGGEYLKEHCASNIYVPIRLPKQASRSSDAQASSKGSAAAG
GGAGEQA

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FIGURE 5771A

GGGGTGCCGCCGCCGCGCTTGCGCTTGCTCCCGGGCGGTCTGGCCTGTGCCGCCGCCGCCCCAGCGTCGGAGC
CATGGCGGGCGCGCGCTCCCTTGCGCCAACGGCTGCGGGCCCCGGCGCGCCCTCGGACGCCGAGGTGCTGCACCT
CTGCCGCAGCCTCGAGGTGGGCACCGTCATGACTTTGTTCTACTCCAAGAAGTCGCAGCGACCCGAGCGGAAGAC
CTTCCAGGTCAAGCTGGAGACGCGCCAGATCACGTGGAGCCGGGGCGCCGACAAGATCGAGGGGGCCATTGACAT
TCGTGAAATTAAGGAGATCCGCCCAGGGAAGACCTCACGGGACTTTGATCGCTATCAAGAGGACCCAGCTTTCCG
GCCGGACCACTCACATTGCTTTGTCTATTCTCTATGGAATGGAATTTGCGCTGAAAACGCTGAGCCTGCAAGCCAC
ATCTGAGGATGAAGTGAACATGTGGATCAAGGGCTTAACCTGGCTGATGGAGGATACATTGCAGGCACCCACACC
CCTGCAGATTGAGAGGTGGCTCCGGAAGCAGTTTTACTCAGTGGATCGGAATCGTGAGGATCGTATATCAGCCAA
GGACCTGAAGAACATGCTGTCCCAGGTCAACTACCGGGTCCCCAACATGCGCTTCCTCCGAGAGCGGCTGACGGA
CCTGGAGCAGCGCAGCGGGGACATCACCTACGGGCAGTTTGCTCAGCTGTACCGCAGCCTCATGTACAGCGCCCA
GAAGACGATGGACCTCCCTTCTTGGAAGCCAGTACTCTGAGGGCTGGGGAGCGGCCGGAGCTTTGCCGAGTGT
CCTTCCTGAGTTCCAGCAGTTCTTCTTGACTACAGGGGGAGCTGTGGGCTGTTGATCGCCTCCAGGTGCAGGA
GTTTATGCTCAGTTCTTCCGAGACCCCTTACGAGAGATCGAGGAGCCATACTTCTTCTCGGATGAGTTTGTAC
CTTCTGTTCTCAAAGAGAACAGTGTGTGGAACCTCGCAGCTGGATGCAGTATGCCCGGACACCATGAACAACCC
TCTTCCCACTACTGGATCTCCTCCTCGCACAAACAGTACCTGACCGGGGACAGTTCTCCAGTGAGTCTCCTT
GGAAGCCTATGCTCGCTGCCTGCGGATGGGCTGTGCTGCATTGAGTTGGACTGCTGGGACGGCCCGGATGGGAT
GCCAGTTATTTACCATGGGCACACCCCTTACCACCAAGATCAAGTTCTCAGATGTCTGCACACCATCAAGGAGCA
TGCTTTGTGGCTCAGAGTACCCAGTCATCCTGTCCATTGAGGACCACTGCAGCATTGCCCAGCAGAGAAACAT
GGCCCAATACTTCAAGAAGGTGCTGGGGGACACACTCCTCACCAAGCCCGTGGAGATCTTGCCGACGGGGTCCC
CTACCCAACAGCTTAAGAGGAAGATCCTCATCAAGCACAAGAAGCTGGCTGAGGGCAGTGCCACGAGGAGGT
GCTACATCCATGATGTACTCTGAGAACGACATCAGCAACTCTATCAAGAATGGCATCCTCTACCTGGAGGACCC
TGTAACCACGAATGGTATCCCCACTACTTTGTTCTGACCAGCAGCAAGATCTACTACTCTGAGGAGACCAGCAG
TGACCAGGGCAACGAGGATGAGGAGGAGCCCAAGGAGGTGAGCAGCAGCAGAGAGTGCCTCAATGAGAAGTG
GTTCCATGGGAAGCTAGGGGCGAGGGCGGTGACCTGCTGAGCGCCTGCTTACTGAGTACTGCATCGA
GACCGGAGCCCCCTGACGGCTCCTTCTCGTGCGAGAGATGAGACCTTCTGTTGGCGACTACACGCTCTCTTTCTG
GCGGAACGGGAAAGTCCAGCACTGCCGTATCCACTCCCGGCAAGATGCTGGGACCCCCAAGTTCTTCTTGACAGA
CAACCTCGTCTTTGACTCCCTCTATGACCTCATCAGCACTACAGCAGGTGCCCTGCGCTGTAATGAGTTGA
GATGCGACTTTTCAGAGCCTGTCCACAGACCAACGCCCACGAGAGCAAAGAGTGGTACCACGCGAGCCTGACCAG
AGCACAGGCTGAGCACATGCTAATGCGCGTCCCTCGTGATGGGGCCTTCTGTTGCGGAAGCGGAATGAACCCAA
CTCATATGCCATCTCTTTCCGGGCTGAGGGCAAGATCAAGCATTGCCGTGTCCAGCAAGAGGGCCAGACAGTAT
GCTAGGGAACCTCGGAGTTTCAGACGCTTGTGACCTCATCAGCTACTATGAGAAACACCCGCTATACCGCAAGAT
GAAGCTGCGCTATCCCATCAACGAGGAGGCACTGGAGAAGATTGGCACAGCTGAGCCTGACTACGGGGCCCTGTA
TGAGGGACGCAACCCCTGGCTTCTATGTAGAGGCAACCCCTATGCCAATTTCAAGTGTGAGTCAAAAGCAAGA
GGGAGGCTGGTGGCGAGGGGACTACGGAGGGAAGAAGCAGCTGTGGTTCCCATCAAACCTACGTGGAAGAGATGGT
CAACCCCGTGGCCCTGGAGCCGGAGAGGGAGCACTTGACGAGAAACAGCCCCCTAGGGGACTTGCTGCGGGGGGT
CTTGATGTGCCGGCTTGTGAGATTGCCATCCGTCTGAGGGCAAGAACAACCGGCTCTTCTGCTTCTCCATCAG
CATGGCGTGGTGGCCCACTGGTCCCTGGATGTTGCTGCCGACTCACAGGAGGAGCTGCAGGACTGGGTGAAAAA
GATCCGTGAAGTGGCCCAAGACAGCAGACGCCAGGCTCACTGAAGGGAAGATAATGGAACGGAGGAAGAAGATTGC
CCTGGAGCTCTCTGAACCTGTGCTCTACTGCCGGCTGTTCCTTTGATGAAGAGAAGATTGGCACAGAACGTGC
TTGCTACCGGGACATGTCTCCTTCCCGAAACCAAGGCTGAGAAATACGTGAACAAGGCCAAAGGCAAGAAGTT
CCTTCAGTACAATCGACTGCAGCTCTCCCGCATCTACCCCAAGGGCCAGCGACTGGATTCTTCAACTACGATCC
TTTGCCCATGTGGATCTGTGGCAGTCAGCTTGTGGCCCTCAACTTCCAGACCCCTGACAAGCCTATGCAGATGAA
CCAGGCCCTCTTCATGACGGGCAGGCACTGTGGCTACGTGCTGCAGCCAAGCACCATGCGGGATGAGGCCTTCGA
CCCCTTTGACAAGAGCAGCCTCCGCGGGCTGGAGCCATGTGCCATCTCTATTGAGGTGCTGGGGGCCGACATCT
GCCAAGAATGGCCGAGGCATTGTGTCTCTTTTGTGGAGATTGAGGTGGCTGGAGCTGAGTATGACAGCACCA
GCAGAAGACAGAGTTTGTGGTGGACAATGACTCAACCCTGTATGGCCAGCCAAGCCCTTCCACTTCCAGATCAG
TAACCCTGAATTTGCCTTCTGCGCTTCGTGGTGTATGAGGAAGACATGTTTAGTGACCAGAATTTCTGGCTCA

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FIGURE 5771B

GGCTACTTTCCCAGTAAAAGGCCTGAAGACAGGATACAGAGCAGTGCCTTTGAAGAACAACCTACAGTGAGGACCT
GGAGTTGGCCTCCCTGCTGATCAAGATTGACATTTTCCCTGCCAAGGAGAATGGTGACCTCAGTCCCTTCAGTGG
TACGTCCCTGCGGGAGCGGGGCTCAGATGCCTCAGGCCAGCTGTTTCATGGCCGAGCCCCGGGAAGGCTCCTTTGA
ATCCCGCTACCAGCAGCCGTTTGAGGACTTCCGCATCTCCCAGGAGCATCTCGCAGACCATTTTGACAGTCGAGA
ACGAAGGGCCCCAAGAAGGACTCGGGTCAATGGAGACAACCGCCTCTAGTTGTACCCAGCCTCGTTGGAGAGCA
GCAGGTGCTGTGCGCCTTGTAGAATGCCGCGAACTGGGTTCTTTGGAAGCAGCCCCCTGTGGCGGCCTTCCGGGT
CTCGCAGCCTGAAGCCTGGATTCCAGCAGTGAATGCTAGACAGAAACCAAGCCATTAATGAGATGTTATTACTGT
TTTGGGCCTCCATGCCCCAGCTCTGGATGAAGGCAAAAAGTGTACTGTGTTTCGCATTAAGCACACACATCTGGC
CCTGACTTCTGGAGATGGATCCTTCCATCTTGTGGGGCCAGGACCATGGCCGAAGCCCCCTTGGAGAGAGAGGCTG
CCTCAGCCAGTGGCACAGGAGACTCCAAGGAGCTACTGACATTCCCTAAGAGTGGAGGAGGAGGAGGAGCCTTGCT
GGGCCAGGGAAACAAAGTTTACATTGTCCTGTAGCTTTAAAACCACAGCTGGGCAGGG

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FIGURE 5772

MAGAASPCANGCGPGAPSDAEVLHLCRSLEVGTVMTLFYSSKKSQRPERKTFQVKLETRQITWSRGADKIEGAIDI
REIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGMFRLKTLSLQATSEDEVNMWIKGLTWLMEDTLQAPT
LQIERWLRKQFYSVDRNREDRISAKDLKNMLSQVNYRVFNMFLRERLTDLEQRSGDITYGQFAQLYRSLMYSAQ
KTMDLPFLEASTLRAGERPELRCVSLPEFQQFLLDYQGELWAVDRLQVQEFMLSFLRDPLREIEEPYFFLDEFVT
FLFSKENS VWNSQLDAVCPDTMNNPLSHYWISSSHNTYLTGDQFSSESSLEAYARCLRMGCRCIELDCWDGPDGM
PVIYHGHTLTTKIKFSDVLHTIKEHAFVASEYPVILSIEDHCSIAQQRNMAQYFKKVLGDTLLTKPVEISADGLP
SPNQLKRKILIKHKKLAEGSAYEEVPTSMYSENDISNSIKNGILYLEDPVNHEWYPHYFVLTSSKIYYSEETSS
DQGNEDDEEPKEVSSSTELHSNEKWFGKLGAGRDGRHIAERLLTEYCIETGAPDGSFLVRESETFVGDYTLFSW
RNGKVQHCRHSRQDAGTPKFFLTDNLVFDSDLYDLITHYQQVPLRCNEFEMRLSEPVPQTNAHESKEWYHASLTR
AQAEHMLMRVPRDGAFLVRKRNEPNSYAISFRAEGKIKHCRVQOEGQTVMLGNSEFDSLVDLISYEEKHPLYRKM
KLRYPINEEAEKIGTAEPDYGALYEGRNPGFYVEANPMPTFKCAVKALFDYKAQREDELTFIKSAIIQNVEKQE
GGWWRGDYGGKKQLWFPSNYVEEMVNPVALEPEREHLDENSPLGDLRLRGVLDVPACQIAIRPEGKNNRLFVFSIS
MASVAHWSLDVAADSQEELQDWVKKIREVAQTADARLTEGKIMERRKKIALELSELVVYCRPVPFDEEKIGTERA
CYRDMSSFPETKAEKYVNKAKGKKFLQYNRLQLSRIYPKGQRLDSSNYDPLPMWICGSQALVALNFQTPDKPMQMN
QALFMTGRHCGYVLQPSTMRDEAFDPFDKSSLRGLPECAISIEVLGARHLPKNRGIVCPFVEIEVAGAEYDSTK
QKTEFVVDNGLNPVWPAKPFHFQISNPEFAFLRFVVEEDMFSDQNFQAQATFPVKGLKTGYRAVPLKNNSYEDL
ELASLLIKIDIFPAKENGDLSPFSGTSLRERGS DASGQLFHGRAREGSFESRYQQPFEDFRISQEHLDHFDRE
RRAPRRTRVNGDNRL

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FIGURE 5773

TAAGAGTCATCACTTCTGCTGAGTAGGCAAAACAATGAACTATAACAACAGACATCATTTTCTTTCCTTAAATTC
TGAGGTTTATGCTGGAAAAATAAACCCATTTCTTTATAAACATCTAATTAAATAAAAGTATCAAAGAAAAATAAGAT
AATGGAAGAAGCATCCGCCTTTTGGGGCACTATATTCCTAAGGTTGGGCTTTAAGATTTTTTAACAGGAAACCCA
GGAATTTCTGAAAAACAAGGCCTTTTTTACATTACCAAGAAGCTCACAGCTACTCTGTGAATGCCCTAGATATTTG
ACTCAAATTTTTCACTCAATCTTATTAGGTATATTTCTGGATTATTTGAATCTACAAACCAACCCTAGAATATCA
TGCTTTCCAGTCACACCTGTGGCACAATGAGCAGTGTACGACCATGCCCCATCACAATCCAACCCTGGTACCCCT
ACATTGTGACACCTCCTAGAAAGGTATTAAAGCTGAGCCAATTAATCTATATTTTGATTCAGACTAAGATTAAT
AAATGCTTTTAAATAAAGTAACTTTTAAGGTATCTGAACAAAGGGATGTAAGGTTAATTCACTTCTCAAACCTGCA
ATTTCAACTCATCAGGCTTATGGATGTATGGACTAATTGCTAACCTAGTAACTCCTACAAATTTGCAGTATTCAA
AGCGTTTACCCATTTCACTGTTTTTCAAACCAATTACACAAAGCATTAAAATTTACAAGTATGATCTAACCAATT
ATCAAATAATCCCACTAACTACAAAGGGGACTGACTACTGGGTGGAACCTTAAGTGGCAACTGACTTTACTGAGAT
TAAGTGCCTGTTAAACATAATGATCTTTTACGAGAAAATGCAGTATGTGCTTTTACACTTTGAATAAACTCAATT
TCAGAACAAAAAGAGGCTACTTCCATTTCCACATGACAAACATTAAAG

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FIGURE 5774

GCTGACGCCTTCGAGCGCGGCCCCGGGGCCCGGAGCGGCGCGGAGCAGCCCGGGTCTTGACCCCGGCCCGGCTCCCG
CTCCGGGCTCTGCCGGCGGGCGGGCGAGCGCGGCGCGGTCCGGGCGGGGGGATGCTCGGCGGACGCGCTGCGA
GGATCTGGATGAGCTGCACTACCAGGACACAGATTTCAGATGTGCCGGAGCAGAGGGATAGCAAGTGCAAGGTCAA
ATGGACCCATGAGGAGGACGAGCAGCTGAGGGCCCTGGTGAGGCAGTTTGGACAGCAGGACTGGAAGTTCCTGGC
CAGCCACTTCCCTAACCGCACTGACCAGCAATGCCAGTACAGGTGGCTGAGAGTTTTGAATCCAGACCTTGTC
GGGGCCATGGACCAAAGAGGAAGACCAAAAGTTCATCGAGCTGGTTAAGAAGTATGGCACAAAGCAGTGACACT
GATTGCCAAGCACCTGAAGGGCGGCTGGGGAAGCAGTGCCGTGAACGCTGGCACAAACCCTCAACCCTGAGGT
GAAGAAGTCTTGCTGGACCGAGGAGGAGGACCGCATCATCTGCGAGGCCCACAAGGTGCTGGGCAACCGCTGGGC
CGAGATCGCCAAGATGTTGCCAGGGAGGACAGACAATGCTGTGAAGAATCACTGGAACCTACCATCAAAAGGAA
GGTGGACACAGGAGGCTTCTTGAGCGAGTCCAAAGACTGCAAGCCCCAGTGTAAGTCTGCTGGAGCTCGAGGA
CAAGGACGGCCTCCAGAGTGCCAGCCACGGAAGGCCAGGGAAGTCTTCTGACCAACTGGCCCTCCGTCCCTCC
TACCATAAAGGAGGAGGAAAACAGTGAGGAGGAAGTTCAGCAGGCCACCACATCGAAGGAACAGGAGCCCATCGG
TACAGATCTGGACGCAGTGCGAACACCAGAGCCCTTGAGGGAATTCGGAAGCGTGAGGACCAGGAAGGCTCCCC
ACCAGAAACGAGCCTGCCTTACAAGTGGGTGGTGAGGCAGCTAACCTCCTCATCCCCGCTGTGGGTCTTAGCCT
CTCTGAAGCCCTGGACTTGATCGAGTCGGACCCTGATGCTTGGTGTGACCTGAGTAAATTTGACCTCCCTGAGGA
ACCATCTGCAGAGGACAGTATCAACAACAGCCTAGTGCAGCTGCAAGCGTCACATCAGCAGCAAGTCTTGCCACC
CCGCCAGCCTTCCGCCCTGGTGCCAGTGTGACCGAGTACCGCCTGGATGGCCACACCATCTCAGACCTGAGCCG
GAGCAGCCGGGGCGAGCTGATCCCCATCTCCCCAGCACTGAAGTCGGGGGCTCTGGCATTGGCACACCGCCCTC
TGTGCTCAAGCGGCAGAGGAAGAGGCGTGTGGCTCTGTCCCCGTCACTGAGAATAGCACCAGTCTGTCTTCTCT
GGATTCTGTAAACAGCCTCAGGCCAAGAGCACACCTGTTAAGACCCTGCCCTTCTCGCCCTCCAGTTTTCTGAA
CTTCTGGAACAAACAGGACACATTGGAGCTGGAGAGCCCTCGCTGACATCCACCCAGTGTGCAGCCAGAAGGT
GGTGGTCACCACACCCTGCACCGGGACAAGACACCCCTGCACCAGAAACATGCTGCGTTTGTAAACCCAGATCA
GAAGTACTCCATGGACAACACTCCCCACAGCCAACCCGTTCAAGAACGCCCTGGAGAAGTACGGACCCCTGAA
GCCCCTGCCACAGACCCCGCACCTGGAGGAGGACTTGAAGGAGGTGCTGCGTTCTGAGGCTGGCATCGAATCAT
CATCGAGGACGACATCAGGCCCCGAGAAGCAGAAGAGGAAGCCTGGGCTGCGGCGGAGCCCCATCAAGAAAGTCCG
GAAGTCTCTGGCTCTTGACATTGTGGATGAGGATGTGAAGCTGATGATGTCCACACTGCCCAAGTCTCTATCCTT
GCCGACAAGTCCCCCTTCAAACCTCTCCAGCCTCACCTGTCAGGTATCAAAGAAGACAACAGCTTGCTCAACCA
GGGCTTCTTGAGGCCAAGCCCCGAGAAGGCAGCAGTGGCCAGAAGCCCCGAAGCCACTTCACGACACCTGCCCC
TATGTCCAGTGCCTGGAAGACGGTGGCTGCGGGGGGACCAGGGACCAGCTTTTCATGCAGGAGAAAGCCCGCA
GCTCCTGGGCGCCTGAAGCCAGCCACACATCTCGGACCCCTCATCTTGTCTGAGGTGTTGAGGGTGTACAGAG
CCCATTCTCATGTTTACAGGGGTGTGGGGGCAGAGGGGCTGTGTAATCTGAGAGTCATTAGGTGACCTCCTG
CAGGGAGCCTTCTGCCACCAGCCCTCCCCAGACTCTCAGGTGGAGGCAACAGGGCCATGTGCTGCCCTGTTGCC
GAGCCAGCTGTGGGCGGCTCCTGGTGCTAACAACAAAGTTCACCTTCCAGGTCTGCCTGGTTCCCTCCCCAAGG
CCACAGGGAGCTCCGTACGCTTCTCCCAAGCCACGTCAGGCCTGGCCTCATCTCAGACCTGCTTAGGATGGGG
GATGTGGCCAGGGGTGCTCCTGTGCTCACCCCTCTCTTGGTGCAATTTTTTTGGAAGAATAAAATTGCCTCTCTTT
TG

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FIGURE 5775

MSRRTRCEDLDELHYQDIDSVDPEQRDSKCKVKWTHEEDEQLRALVRQFGQQDWKFLASHFPNRTDQQCQYRWLR
VLNPDVLVKGFWTKEEDQKVIELVKKYGTKQWTLIAKHLKGRLGKQCRERWHNHLNPEVKKSCWTEEDRIICEAH
KVLGNRWAEIAKMLPGRTDNAVKNHWNSTIKRKVDTGGLSESKDCKPPVYLLLELEDKDGLQSAQPTTEGQGSLL
TNWPSVPPTIKEENSEEELAAATTSKEQEPIGTDLDAVRTPEPLEEFPKREDQEGSPPETSLPYKWVVEAANLL
IPAVGSSLSEALDLIESDPDAWCDLSKFDLPEEPSAEDSINNSLVQLQASHQQQVLPPRQPSALVPSVTEYRLDG
HTISDLRSRRGELIPISPSTEVGSGIGTPPSVLKRQRKRRVALSPVTENSTLSFLDSCNSLTPKSTPVKTLP
FSPSQFLNFWNKQDTLELESPLTSTPVC SQKVVVTTPLHRDKTPLHQKHAAFVTPDQKYSMDNTPHTPTPFKNA
LEKYGPLKPLPQTPHLEEDLKEVLRSEAGIELIIEDDIRPEKQKRKPLRRSPIKKVRKSLALDIVDEDVKLMMS
TLPKSLSLPTTAPSNSSSLTSLGIKEDNSLLNQGLQAKPEKAAVAQKPRSHFTTPAPMSSAWKTVACGGTRDQL
FMQEKARQLLGRLLKPSHTSRTLILS

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FIGURE 5776

ACCGCTGGCCCCAGGGAAAGCCGAGCGGCCACCGAGCCGGCAGAGACCCACCGAGCGGCGGGAGGGAGCAGCG
CCGGGGCGCACGAGGGCACCATGGCCCAGACGCCCCGCTTCGACAAGCCCAAAGTGAAACTGCATGTCCACCTAG
ACGGATCCATCAAGCCTGAAACCATCTTATACTATGGCAGGAGGAGAGGGATCGCCCTCCCAGCTAACACAGCAG
AGGGGCTGCTGAACGTCAATTGGCATGGACAAGCCGCTCACCCCTTCAGACTTCCTGGCCAAGTTTGACTACTACA
TGCCTGCTATCGCGGGCTGCCGGGAGGCTATCAAAAGGATCGCCTATGAGTTTGTAGAGATGAAGGCCAAAGAGG
GCGTGGTGTATGTGGAGGTGCGGTACAGTCCGCACCTGCTGGCCAACCTCAAAGTGAGGCCAATCCCCTGGAACC
AGGCTGAAGGGGACCTCACCCCAGACGAGGTGGTGGCCCTAGTGGGCCAGGGCCTGCAGGAGGGGGAGCGAGACT
TCGGGGTCAAGGCCCGGTCCATCCTGTGCTGCATGCGCCACCAGCCCCAACTGGTCCCCCAAGGTGGTGGAGCTGT
GTAAGAAGTACCAGCAGCAGACCGTGGTAGCCATTGACCTGGGTGGAGATGAGACCATCCCAGGAAGCAGCCTCT
TGCCCTGGACATGTCCAGGCCTACCAGGAGGCTGTGAAGAGCGGCATTACCGTACTGTCCACGCCGGGGAGGTGG
GCTCGGCCGAAGTAGTAAAAGAGGCTGTGGACATACTCAAGACAGAGCGGCTGGGACACGGCTACCACACCCCTGG
AAGACCAGGCCCTTTATAACAGGCTGCGGCAGGAAAACATGCACTTCGAGATCTGCCCCCTGGTCCAGCTACCTCA
CTGGTGCCTGGAAGCCGGACACGGAGCATGCAGTCATTGGGCTCAAAAATGACCAGGCTAACTACTCGCTCAACA
CAGATGACCCGCTCATCTTCAAGTCCACCCTGGACACTGATTACCAGATGACCAAACGGGACATGGGCTTTACTG
AAGAGGAGTTTAAAAGGCTGAACATCAATGCGGCCAAATCTAGTTTCCTCCCAGAAGATGAAAAGAGGGAGCTTC
TCGACCTGCTCTATAAAGCCTATGGGATGCCACCTTCAGCCTCTGCAGGGCAGAACCTCTGAAGACGCCACTCCT
CCAAGCCTTCACCCTGTGGAGTCACCCCAACTCTGTGGGGCTGAGCAACATTTTACATTTATTCTTCCAAGAA
GACCATGATCTCAATAGTCAGTTACTGATGCTCCTGAACCCTATGTGTCCATTTCTGCACACACGTATACCTCGG
CATGGCCGCGTCACCTCTCTGATTATGTGCCCTGGCCAGGGACCAGCGCCCTTGACATGGGCATGGTTGAATCT
GAAACCCTCCTTCTGTGGCAACTTGTAAGTGAATCTGGTGTCTCAATAAAGAAGCCCATGGCTGGTGGCATGC

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FIGURE 5777

MAQTPAFDKPKVKLHVHLDGSIKPETILYYGRRRGIALPANTAEGLLNVIGMDKPLTLPDFLAKFDYYMPAAGC
REAIKRIAYEFVEMKAKEGVVYVEVRYSPHLLANSKVEPIPNWQAEGDLTPDEVVALVGQGLQEGERDFGVKARS
ILCCMRHQPNWSPKVVVELCKKYQQQTVVAIDLAGEDETIPGSSLLPGHVQAYQEAVKSGIHRTVHAGEVGSAEVVK
EAVDILKTERLGHYHTLEDQALYNRLRQENMHFEICPWSSYLTGAWKPDTEHAVIRLKNDQANYSLNTDDPLIF
KSTLDTDYQMTKRDMGFTEEEFKRLNINAAKSSFLPEDEKRELLDLYKAYGMPPSASAGQNL

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FIGURE 5778

GTTCGCTGTTGGGCGGAGATATTCGCCGCCGGCGCTTGCGCCCGGAAGGTGTGCCGCACCACACGGGGGAGGAAG
GAAGGAGCTCCCAACTCGCCGGCCTGGCCACGGGATGGCCCCCAAATTCCCAGACTCTGTGGAGGAGCTCCGCGC
CGCCGGCAATGAGAGTTTCCGCAACGGCCAGTACGCCGAGGCCTCCGCGCTCTACGGCCGCGCGCTGCGGGTGCT
GCAGGCGCAAGGTTCTTCAGACCCAGAAGAAGAAAGTGTTCTCTACTCCAACCGAGCAGCATGTCACTTGAAGGA
TGGAAACTGCAGAGACTGCATCAAAGATTGCACTTCAGCACTGGCCTTGGTTCCCTTCAGCATTAAAGCCCTGCT
GCGGCGAGCATCTGCTTATGAGGCTCTGGAGAAGTACCCTATGGCCTATGTTGACTATAAGACTGTGCTGCAGAT
TGATGATAATGTGACGTGAGCCGTAGAAGGCATCAACAGAATGACCAGAGCTCTCATGGACTCGCTTGGGCCTGA
GTGGCGCCTGAAGCTGCCCTCAATCCCCCTTGGTGCCTGTTTCAGCTCAGAAGAGGTGGAATTCCTTGCCTTCGGA
GAACCACAAAGAGATGGCTAAAAGCAAATCCAAAGAAACCACAGCTACAAAGAACAGAGTGCCCTTCTGCTGGGGA
TGTGGAGAAAGCCAGAGTTCTGAAGGAAGAAGGCAATGAGCTTGTAAGAAGGGAAACCATAAGAAAGCTATTGA
GAAGTACAGTGAAAGCCTCTTGTGTAGTAACCTGGAATCTGCCACGTACAGCAACAGAGCACTCTGCTATTTGGT
CCTGAAGCAGTACACAGAAGCAGTGAAGGACTGCACAGAAGCCCTCAAGCTGGATGGAAGAACGTGAAGGCATT
CTACAGACGGGCTCAAGCCCACAAAGCACTCAAGGACTATAAATCCAGCTTTGCAGACATCAGCAACCTCCTACA
GATTGAGCCTAGGAATGGTCTCTGCACAGAAGTTGCGGCAGGAAGTGAAGCAGAACCTACACTAAAAACCCAACAG
GGCAACTGGAACCCCTGCCTGACCTTACCCAGAGAAGCCATGGGCCACCTGCTCTGTGCCCCGCTCCTGAAACCCA
GCATGCCCCAAGTGAGCTCTGAAGCCCCCTCCTCAATCCCTTGATGGCCTCCCACCCTGTAAGAGGCTTTGCTTG
TTCAAATTAAACTCAGTGTAGTCAAACACAGACATGGTTGTTGCACCAGAAAGGTCCCCACTAGAGCTAAGCGTG
AAGCTGAAGCTCTGTCCCTATTCCCCCAGCCCAGCTAGCTGATCACACCAACAGATCCTCATCAGCAAAGCATTT
GGCTTTGTCTGCCCCAAGTGGGCTGCAGACTGAGTGCTGCCCTTGTAGCTTCCCCAGACCCCAACTCACTGCAGT
TCATCTGAACAACCTGAGCTCCTGGGCCGGGGTGGAAGGAGGGGGATAAACCTAAGGCCCTGATCCAAAGCAGCC
TGTTGAGCTGGTTCTCCAGGGCTGCAGTCTCTCCAGGTGTACAGCTGCTGTCCCTGCCCTGTCTGTCTTGCAC
AGTCTCCTATGTCTGAGCCCCAGTGCCCTTCTGTTGCGGCCCTCCTTTGGTGGGAAGGCAGAGCCCTGACCCCTGA
ATGGTTGTCTTGAAGTCTGTGCTGCTGCCTTCTGCAGAGAGGCACCTAAGCTGTTTAAAGAGCCAGTGATTGTG
GCTGCTCCTCCTAGAGGTGGGAGGGGGCAAGAGGCCTCCTTGGTCAGTGTCATGCTTTCTGGGCAGGGACTTGG
TTTTTTGTTCCAACAGTGGCCTTCTCCGGGCTTCATAGTTCTTTGTAATATGTTGAAGTTAATTTGAATTGACTG
ATTTTGTGAACTGTGTGTTTAAGCTGTTGCATTAAAAAGCTTTCTTCTACATCAATATCTGCTGTGCTTTTATT
TATGCCTTTTCAGCTTTGCACCTGGAACCTCTGTAGTAATAATAAAAGTTATTGCTTATTGGGCATT

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FIGURE 5779

CAATACAGCTAAGGAATTATCCCTTGTAATAACACAGACCCGCCCTGGAGCCAGGCCAAGCTGGACTGCATAAA
GATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTCCTGACACCAATGAGGGCCAGCAGCTTCTTGATCGTGGTGG
TGTTCCCTCATCGCTGGGACGCTGGTTCTAGAGGCAGCTGTCACGGGAGTTCCCTGTTAAAGGTCAAGACACTGTCA
AAGGCCGTGTTCCATTCAATGGACAAGATCCCGTTAAAGGACAAGTTTCAGTTAAAGGTCAAGATAAAGTCAAAG
CGCAAGAGCCAGTCAAAGGTCCAGTCTCCACTAAGCCTGGCTCCTGCCCCATTATCTTGATCCGGTGCGCCATGT
TGAATCCCCCTAACCGCTGCTTGAAAGATACTGACTGCCCAGGAATCAAGAAGTGCTGTGAAGGCTCTTGCGGGA
TGGCCTGTTTCGTTCCCCAGTGAAGGGAGCCGGTCTTGCTGCACCTGTGCCGTCCCCAGAGCTACAGGCCCCAT
CTGGTCCTAAGTCCCTGCTGCCCTTCCCCTTCCCACACTGTCCATTCTTCTCCCATTCAGGATGCCACGGCTG
GAGCTGCCTCTCTCATCCACTTTCCAATAAA

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FIGURE 5780

MRASSFLIVVVFLIAGTLVLEAAVTGVPVKGQDTVKG RVPFNGQDPVKGQVSVKGQDKVKAQEPVKG P VSTKPGS
CPIILIRCAMLNPPNRCLKDTCPGIKKCEGSCGMACFVPQ

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FIGURE 5781

CAGAGTCACTCCTGCCTTCACCAATGAAGTCCAGCGGCCTCTTCCCCTTCCTGGTGCTGCTTGCCCTGGGAAGTCT
GGCACCTTGGGCTGTGGAAGGCTCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCTCCTAAGAAATCTGCCCAGTG
CCTTAGATACAAGAAACCTGAGTGCCAGAGTGAAGTGGCAGTGTCCAGGGAAGAAGAGATGTTGTCTGACACTTG
TGGCATCAAATGCCTGGATCCTGTTGACACCCCAACCAACAAGGAGGAAGCCTGGGAAGTGGCCAGTGACTTA
TGGCCAATGTTTGATGCTTAACCCCCCAATTTCTGTGAGATGGATGGCCAGTGCAAGCGTGACTTGAAGTGTTG
CATGGGCATGTGTGGGAAATCCTGCGTTTCCCCTGTGAAAGCTTGATTCCTGCCATATGGAGGAGGCTCTGGAGT
CCTGCTCTGTGTGGTCCAGGTCTTTCCACCCTGAGACTTGGCTCCACCACTGATATCCTCCTTTGGGGAAAGGC
TTGGCACACAGCAGGCTTTCAAGAAGTGCCAGTTGATCAATGAATAAATAAACGAGCCTATTTCTCTTTGCAC

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FIGURE 5782

MKSSGLFPFLVLLALGTLAPWAVEGSGKSFKAGVCPPKKSAQCLRYKKPECQSDWQCPGKKRCCPDTCGIKCLDP
VDTPNPTRRKPGKCPVTYQGCLMLNPPNFCEMDGQCKRDLKCCMGMCVKSCVSPVKA

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FIGURE 5783

GCGGCTATGCCGCTCTGGCTCTGCTCGTCTGTTGCTCCTGGGGCCCGGGGCTGGTGCCTTGCAGAACCCCCACG
CGACACCTGCGGGAGGAACCTTGTTCATCACCCCGCTGCCTTCCGGGGACGTAGCCGCCACATTCCAGTTCCGCACG
CGCTGGGATTTCGGAGCTTCAGCGGGAAGGAGTGTCCCATTACAGGCTCTTTCCCAAAGCCCTGGGGGAGCTGATC
TCCAAGTATTCTCTACGGGAGCTGCACCTGTTCATTACACAAGGCTTTTGGAGGACCCGATACTGGGGGCCACCC
TTCCTGCAGGCCCCATCAGGTGCAGAGCTGTGGGTCTGGTTCCAAGACACTGTCACTGATGTGGATAAAATCTTG
AAGGAGCTCAGTAATGTCTCTCAGGGATCTTCTGCGCTCTCTCAACTTCATCGACTCCACCAACACAGTCACT
CCCACTGCCTCCTTCAAACCCCTGGGTCTGGCCAATGACACTGACCACTACTTTCTGCGCTATGCTGTGCTGCCG
CGGGAGGTGGTCTGCACCGAAAACCTCACCCCTGGAAGAAGCTCTTGCCCTGTAGTTCCAAGGCAGGCCTCTCT
GTGCTGCTGAAGGCAGATCGCTTGTTCACACCAGCTACCACTCCAGGCAGTGCATATCCGCCCTGTTTGCAGA
AATGCACGCTGTACTAGCATCTCTGGGAGCTGAGGCAGACCCCTGTCAAGTTGATTTGATGCCTTCATCACGGGG
CAGGGAAGAAAGACTGGTCCCTCTTCCGGATGTTCTCCGAACCCCTCACGGAGCCCTGCCCCCTGGCTTCAGAG
AGCCGAGTCTATGTGGACATCACCACTACAACCAGGACAACGAGACATTAGAGGTGCACCCACCCCCGACCACT
ACATATCAGGACGTATCTTAGGCACTCGGAAGACCTATGCCATCTATGACTTGCTTGACACCGCCATGATCAAC
AACTCTCGAAACCTCAACATCCAGCTCAAGTGGAAGAGACCCCAAGAGATGAGGCCCCCCCCAGTGCCCTTCTG
CATGCCCAGCGGTACGTGAGTGGCTATGGGCTGCAGAAGGGGGAGCTGAGCACACTGCTGTACAACACCCACCCA
TACCGGGCCTTCCCGGTGCTGCTGCTGGACACCGTACCCTGGTATCTGCGGCTGTATGTGCACACCCCTACCATC
ACCTCCAAGGGCAAGGAGAACAACCAAGTTACATCCACTACCAGCCTGCCAGGACCGGCTGCAACCCACCTC
CTGGAGATGCTGATTTCAGCTGCCGGCCAACCTCAGTCACCAAGGTTTCCATCCAGTTTGAGCGGGCGCTGCTGAAG
TGGACCGAGTACACGCCAGATCCTAACCATGGCTTCTATGTCAGCCCATCTGTCTCAGCGCCCTTGTGCCCAGC
ATGGTAGCAGCCAAGCCAGTGGACTGGGAAGAGAGTCCCTCTTCAACAGCCTGTTCCAGTCTCTGATGGCTCT
AACTACTTTGTGCGGCTCTACACGGAGCCGCTGCTGGTGAACCTGCCGACACCGGACTTCAGCATGCCCTACAAC
GTGATCTGCCTCACGTGCACTGTGGTGGCCGTGTGCTACGGCTCCTTCTACAATCTCCTCACCCGAACCTTCCAC
ATCGAGGAGCCCCGCACAGGTGGCTGGCCAAGCGGCTGGCCAACCTTATCCGGCGCGCCGAGGTGTCCCCCA
CTCTGATTCTTGCCCTTTCAGCAGCTGCAGCTGCCGTTTCTCTCTGGGGAGGGGAGCCCAAGGGCTGTTTCTGC
CACTTGCTCTCCTCAGAGTTGGCTTTTGAACCAAAGTGCCCTGGACCAGGTCAGGGCCTACAGCTGTGTTGTCCA
GTACAGGAGCCACGAGCCAAATGTGGCATTGAAATTTGAATTAACCTAGAAATTCATTTCTCCTCAGCTGTAGTGGC
CACCTCTATATTGAGGTGCTCAATAAGCAAAAGTGGTGGTGGCTGCTGTATTGGACAGCACAGAAAAGATTTT
CATCACACAGAAAGGTGCGCTGGCAGCACTGGCCAAGGTGATGGGGTGTGCTACACAGTGTATGTCACTGTGTA
GTGGATGGAGTTTACTGTTTGTGGAATAAAAACGGCTGTTTCCGTGCAACACAAAAA

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FIGURE 5784

MPSGSARPVAPGARRLVPCRTPTRHLREELVITPLPSGDVAATFQFRTRWDSELQREGVSHYRLFPAKALGQLISK
YSLRELHLSFTQGFWRTRYWGPPFLQAPSGAELWVWFQDTVTDVDSWKELSNVLSGIFCASLNFIDSTNTVTPT
ASFKPLGLANDTDHYFLRYAVLPREVVCTENLTPWKLLPCSSKAGLSVLLKADRLFHTSYHSQAVHIRPVCRNA
RCTSISWELRQTLSSVVFDAFITGQKKDWSLFRMFSRTLTEPCPLASESRVYVDITTYNQDNETLEVHPPPTTTY
QDVILGTRKTYAIYDLLDTAMINNSRNLNIQLKWKRPPENEAPPVPFLHAQRYVSGYGLQKQELSTLLYNTHPYR
AFPVLLLDTPWPYLRLYVHTLTITSKGKENKPSYIHYQPAQDRLOPHLLEMLIQLPANSVTKVSIQFERALLKWT
EYTPDPNHGFYVSPSVLSALVPSMVAAPVDWEESPLFNSLFPVSDGSNYFVRLYTEPLLVLNLPDPSMPYNVI
CLTCTVVAVCYGSFYNNLLTRTFHIEEPRTGGLAKRLANLIRRARGVPPL

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FIGURE 5785

GGCACGAGCGAGTTCTGTCTCTCTGCCAACGCCGCCCGGATGGCTTCCCAAAACCGCGACCCAGCCGCCACTAG
CGTCGCCGCCGCCCGTAAAGGAGCTGAGCCGAGCGGGGGCGCCGCCCGGGGTCCGGTGGGCAAAAGGCTACAGCA
GGAGCTGATGACCCTCATGATGTCTGGCGATAAAGGGATTTCTGCCTTCCCTGAATCAGACAACCTTTTCAAATG
GGTAGGGACCATCCATGGAGCAGCTGGAACAGTATATGAAGACCTGAGGTATAAGCTCTCGCTAGAGTTCCCCAG
TGGCTACCCTTACAATGCGCCACAGTGAAGTTCTCACGCCCTGCTATCACCCCAACGTGGACACCCAGGGTAA
CATATGCCTGGACATCCTGAAGGAAAAGTGGTCTGCCCTGTATGATGTCAGGACCATTCTGCTCTCCATCCAGAG
CCTTCTAGGAGAACCCAACATTGATAGTCCCTTGAACACACATGCTGCCGAGCTCTGGAAAAACCCACAGCTTT
TAAGAAGTACCTGCAAGAAACCTACTCAAAGCAGGTCAACAGCCAGGAGCCCTGAACCCAGGCTGCCAGCCTGTC
CTTGTCGTCCTTTTTAATTTTTCCTTAGATGGTCTGTCCTTTTGTGATTTCTGTATAGGACTCTTATCTTGA
GCTGTGGTATTTTGTGTTTTGTCTTTTAAATTAAGCCTCGGTTGAGCCCTTGTATATTAAATAAATGCAT
TTTGTCTTTTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5786

MASQNRDPAATSVAAARKGAEPSSGGAARGPVGKRLQQELMTLMMSGDKGISAFPESDNLFKWVGTIHGAAGTVYE
DLRYKLSLEFFSGYPYNAPT VKFLTPCYHPNVD TQGNICLDILKEKWSALYDVRTILLSIQSLLGEPNIDSPLNT
HAAELWKNPTAFKKYLQETYSKQVTSQEP

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FIGURE 5787

GAACCCGGCCGACCTCCATGGGCTGCGGGGGGCTGCACCCGGACCCCTGGGGCGCGGGCGCGCCCTGAATGCACC
GTGGGACGCAGGAGGGTGCCATGGCCTCCCGGCTCCTGCACCGGCTGCGGCACGCCTTGGCCGGCGACGGCCCCG
GGGAGGCGGGCGGCCAGTCCAGAGGCCGAGCAGTTTCCGGAGAGCTCAGAGCTGGAGGACGACGACGCCGAGGGCC
TGTCCTCCCGACTCAGCGGCACCCCTCAGCTTCACAGCGCCGAGGACGACGAGGACGACGAGGACGAGGACGACG
AGGAGGCTGGCCCTGACCAGCTGCCCCTCGGGGATGGGACGTCAGGAGAAGACGCAGAACGGAGCCCCCACCTG
ATGGGCAGTGGGGCAGTCAGCTCCTGGCGCGGCAGCTGCAGGATTTCTGGAAGAAGTCCCGGAACACCTTGGCAC
CCCAGCGGCTGCTCTTGAAGTGACCAGCGCTAACGTTGTCAAGGACCCGCCCTCCAAGTACGTGCTCTACACCC
TCGCCGTGATCGGCCCAGGACCGCCAGATTGCCAGCCAGCCAGATCTCTCGCCGTTACTCGGACTTTGAGCGGC
TGCACCGAAACCTGCAGCGGCAATTCGGGGGCCAATGGCTGCCATCTCCTTCCCCCGTAAGCGGCTGCGCCGA
ATTTTACTGCAGAGACCATTGCCCCGCGTAGCCGGGCTTTGAGCAGTTTTTGGGTCACCTGCAGGCACTGCCTG
AGCTGCGCCATGCCCCGGACCTGCAGGACTTCTTCGTGCTGCCGGAGCTGCGGCGGGCACAGAGCCTCACCTGTA
CTGGCCTCTATCGTGAGGCTCTGGCACTCTGGGCCAATGCCTGGCAGCTGCAAGCCCAGCTGGGCACCCCCCTCTG
GCCAGACCGCCCCCTGCTGACCCTGGCTGGGCTGGCCGTGTGCCACCAGGAGCTGGAAGACCCTGGAGAGGCCC
GGGCATGCTGTGAGAAGGCCCTGCAGCTGCTTGGGGACAAGAGCCTCCACCCTTTGCTGGCACCCCTTTCTGGAGG
CCCATGTCCGGCTCTCCTGGCGCCTGGGCCTGGACAAACGTCAATCAGAGGCTCGGCTCCAAGCCCTGCAGGAGG
CAGGCCTTACCCCCACACCACCCCCAGTCTCAAAGAATTGCTCATCAAGGAGGTGCTGGACTAAACCCCTTGCTTA
GATTTAAGGCCACTGTGAGGAGAGGGGTGCCCCAGAAGGCAGGGGAAGGACCTGATGAGAACAGAATAGCTGGG
AGGCTGCAGAGGCTGCTGGGAGCCCCTAGAAGTTCCAAAAGAGAATGTGAAGCAGATCAAGGAACTTCTGTTGA
GCTAGGCTCAGGGTGAGCTTTGGCTGGGGTTGCCCTTGTGTAGTACAGGGAACTCTGACACAGCCTCTCCAGCCT
ATAAACAGCCGGGGGGCTGTGGCACAGGTTGGGGCAATGTTCCCTTGTGTTGGTGGGCCCCCAAGCTGGCAAGGCCT
CTTGGCTGAAGGCCAGGGACTCTGCCCCTGAGTCTTGAGTTAAGGGATGAAGGCAAGGCTGCAGGTCTGGCCC
AGGGGAATTAAAAGCCAGCCACTCC

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FIGURE 5788

MHRGTQEGAMASRL LHRLRHALAGDGPGEAAASPEAEQFPESSELEDDDAEGLSSRLSGTLSFTSAEDDEDDEDE
DDEEAGPDQLPLGDTSGEDAERSPPPDGQWGSQLLARQLQDFWKKSRNTLAPQRLLFEVTSANVVKDPPSKYVL
YTLAVIGPGPPDCQPAQISRRYSDFERLHRNLQRQFRGPMAAISFPKRRLRRNFTAETIARRSRAFEQFLGHLQA
VPELRHAPDLQDFFVLPELRRASLTCTGLYREALALWANAWQLQAQLGTPSGPDRPLLTLAGLAVCHQELEDPG
EARACCEKALQLLGDKSLHPLLAPFLEAHVRLSWRLGLDKRQSEARLQALQEAGLTPTPPPSLKELLIKEVLD

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FIGURE 5789

GTGGCCGCGCTCGCCCCGATCCCCTGAGCTGCCCGCCATCCCACGTGACCGCGCCGCCCCCAGCTCCACCGCTG
AGCCCCGCTCGCCATGGCCCCCTCTTCGGGGCCCTCTTCCCTAGCGCTGCTGGCAGGCGCACATGCAGAGTTCCCAGGC
TGCAAGATCCGCGTCACCTCCAAGGCGCTGGAGCTGGTGAAGCAGGAGGGGCTGCGCTTTCTGGAGCAAGAGCTG
GAGACTATCACCAATTCGGACCTGCGGGGCAAAGAAGGCCACTTCTACTACAACATCTCTGAGGTGAAGGTCACA
GAGCTGCAACTGACATCTTCCGAGCTCGATTTCAGCCACAGCAGGAGCTGATGCTTCAAATCACCAATGCCTCC
TTGGGGCTGCGCTTCCGGAGACAGCTGCTCTACTGGTTCTTCTATGATGGGGGCTACATCAACGCCTCAGCTGAG
GGTGTGTCCATCCGCACTGGTCTGGAGCTCTCCCGGGATCCCGCTGGACGGATGAAAGTGTCCAATGTCTCCTGC
CAGGCCCTGTGTCTCCAGAAATGCACGCGGCCTTCGGGGGAACCTTCAAGAAGGTGTATGATTTTCTCTCCACGTTT
ATCACCTCAGGGATGCGCTTCTCTCTCAACCAGCAGATCTGCCCTGTCTCTACCACGCAGGGACGGTCTCTGCTC
AACTCCCTCCTGGACACCGTGCCTGTGCGCAGTTCTGTGGACGAGCTTGTGGCATTGACTATTCCCTCATGAAG
GATCCTGTGGCTTCCACCAGCAACCTGGACATGGACTTCCGGGGGGCCTTCTTCCCCCTGACTGAGAGGAAC TGG
AGCCTCCCCAACC GGCGAGTGAGCCCCAGCTGCAGGAGGAAGAGCGGATGGTGTATGTGGCCTTCTCTGAGTTC
TTCTTCGACTCTGCCATGGAGAGCTACTTCCGGGCGGGGGCCCTGCAGCTGTTGCTGGTGGGGGACAAGGTGCC
CACGACCTGGACATGCTGCTGAGGGCCACCTACTTTGGGAGCATTGTCTCTGCTGAGCCCAGCAGTGATTGACTCC
CCATTGAAGCTGGAGCTGCGGGTCTGGCCCCACCGCGCTGCACCATCAAGCCCTCTGGCACCACCATCTCTGTC
ACTGCTAGCGTCACCATTGCCCTGGTCCCACCAGACCAGCCTGAGGTCCAGCTGTCCAGCATGACTATGGACGCC
CGTCTCAGCGCCAAGATGGCTCTCCGGGGGAAGGCCCTGCGCACGCAGCTGGACCTGCGCAGGTTCGGAATCTAT
TCCAACCATTTCTGCACTGGAGTCGCTGGCTCTGATCCCATTAAGGCCCTCTGAAGACCATGCTGCAGATTGGG
GTGATGCCCATGCTCAATGAGCGGACCTGGCGTGGGGTGCAGATCCCCTACCTGAGGGCATCAACTTTGTGCAT
GAGGTGGTGACGAACCATGCGGGATTCTCTACCATCGGGGCTGATCTCCACTTTGCCAAAGGGCTGCGAGAGGTG
ATTGAGAAGAACCGGCCTGCTGATGTGAGGGCGTCCACTGCCCCCACACCGTCCACAGCAGCTGTCTGAGCCCTC
AATCCCCAAGCTGGCAGCTGTCAATCAGGACCCCAACCCCTCTCAGCCCTCTTTTCCCACATTCATAGCCTGTA
GTCCCCCTCTAACCCCCAGTGCCACAGAGAAGACGGGATTTGAAGCTGTACCCAATTTAATCCATAATCAATC
TATCAATTACAGTCCGTCCACCACC

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FIGURE 5790

MALFGALFLALLAGAHAEFFPGCKIRVTSKALELVKQEGRLFLEQELETITITIPDLRGKEGHFYNNISEVKVTELQL
TSSELD FQPQQELMLQITNASLGLRFRRLYWFYDGGYINASAEGVSIRTGLELSRDPAGRMKVS NVSCQASV
SRMHAAFGGTFKKVYDFLSTFITSGMRFLNQQICPVLYHAGTVLLNSLLDTVPVRSSVDELVGIDYSLMKDPVA
STSNLDMDFRGAFFPLTERNWSLPNRAVEPQLQEEERMVYVAFSEFFFD SAMESYFRAGALQLLL VGDKVPHDLD
MLLRATYFGSIVLLSPAVIDSPLKLELRVLAPPRCTIKPSGTTISVTASVTIALVPPDQPEVQLSSMTMDARLSA
KMALRGKALRTQLDLRRFRIYSNHSALSLALIPLQAPLKTMLQIGVMPMLNERTWRGVQIPLPEGINFVHEVVT
NHAGFLTIGADLHFAKGLREVIEKNRPADVRASTATPSTAAV

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FIGURE 5791

AGACACCTCTGCCCTCACCATGAGCCTCTGGCAGCCCCTGGTCCTGGTGCTCCTGGTGCTGGGCTGCTGCTTTGC
TGCCCCCAGACAGCGCCAGTCCACCCTTGTGCTCTTCCCTGGAGACCTGAGAACCAATCTCACCAGCAGGCAGCT
GGCAGAGGAATACCTGTACCGCTATGGTTACACTCGGGTGGCAGAGATGCGTGGAGAGTCGAAATCTCTGGGGCC
TGCGCTGCTGCTTCTCCAGAAGCAACTGTCCCTGCCCGAGACCGGTGAGCTGGATAGCGCCACGCTGAAGGCCAT
GCGAACCCACCGGTGCGGGTCCCAGACCTGGGCAGATTCCAAACCTTTGAGGGCGACCTCAAGTGGCACCACCA
CAACATCACCTATTGGATCCAAAACCTACTCGGAAGACTTGCCGCGGGCGGTGATTGACGACGCCTTTGCCGCGC
CTTCGCACTGTGGAGCGCGGTGACGCCGCTCACCTTCACTCGCGTGTACAGCCGGGACGCAGACATCGTCATCCA
GTTTGGTGTCGCGGAGCACGGAGACGGGTATCCCTTCGACGGGAAGGACGGGCTCCTGGCACACGCCTTTCTCTCC
TGCCCCCGGCATTGAGGGAGACGCCCATTTCGACGATGACGAGTTGTGGTCCCTGGGCAAGGGCGTCGTGGTTCC
AACTCGGTTTGGAAACGCAGATGGCGCGGCCTGCCACTTCCCTTTCATCTTCGAGGGCGCTCCTACTCTGCCTG
CACCACCGACGGTCGCTCCGACGGCTTGCCCTGGTGCAGTACCACGGCCAACCTACGACACCGACGACCGGTTTGG
CTTCTGCCCCAGCGAGAGACTCTACACCGGGACGGCAATGCTGATGGGAAACCCTGCCAGTTTCCATTCTCTT
CCAAGGCCAATCTACTCCGCCTGCACCACGGACGGTCGCTCCGACGGCTACCGCTGGTGCGCCACCACCGCCAA
CTACGACCGGGACAAGCTCTTCGGCTTCTGCCCGACCCGAGCTGACTCGACGGTGATGGGGGGCAACTCGGCGGG
GGAGCTGTGCGTCTTCCCTTCACTTTCTTGGGTAAGGAGTACTCGACCTGTACCAGCGAGGGCCGCGGAGATGG
GCGCTCTGGTGCCTACCACTCGAACTTTGACAGCGACAAGAAGTGGGGCTTCTGCCCCGACCAAGGATACAG
TTTGTTCCTCGTGGCGGCGCATGAGTTCGGCCACGCGCTGGGCTTAGATCATTCCTCAGTGCCGGAGGCGCTCAT
GTACCCTATGTACCGCTTCACTGAGGGGGCCCCCTTGCCATAAGGACGACGTGAATGGCATCCGGCACCTCTATGG
TCCTCGCCCTGAACCTGAGCCACGGCCTCCAACCACCACACCGCAGCCACGGCTCCCCCGACGGTCTGCCC
CACCGGACCCCCCACTGTCCACCCTCAGAGCGCCCCACAGCTGGCCCCACAGGTCCCCCTCAGCTGGCCCCAC
AGGTCCCCCACTGCTGGCCCTTCTACGGCCACTACTGTGCCTTTGAGTCCGGTGGACGATGCCTGCAACGTGAA
CATCTTCGACGCCATCGCGGAGATTGGGAACCAGCTGTATTTGTTCAAGGATGGGAAGTACTGGCGATTCTCTGA
GGGACGGGGGAGCCGGCCGAGGGCCCCCTTCTTATCGCCGACAAGTGGCCCGCGCTGCCCGCAAGCTGGACTC
GGTCTTTGAGGAGCCGCTCTCCAAGAAGCTTTTCTTCTTCTGCGGCCAGGTGTGGGTGTACACAGGCGCGTC
GGTGCTGGGCCCCGAGGCGTCTGGACAAGCTGGGCCCTGGGAGCCGACGTGGCCAGGTGACCGGGGCCCTCCGGAG
TGGCAGGGGGAAGATGCTGCTGTTGAGCGGGCGGCCCTTGGAGGTTGACGTGAAGGCGCAGATGGTGGATCC
CCGGAGCGCCAGCGAGGTGGACCGGATGTTCCCGGGGTGCCCTTGGACACGCACGACGTCTTCCAGTACCGAGA
GAAAGCCTATTTCTGCCAGGACCGCTTCTACTGGCGCGTGAGTTCCCGAGTGAGTTGAACCAGGTGGACCAAGT
GGGCTACGTGACCTATGACATCCTGCAGTGCCCTGAGGACTAGGGCTCCCGTCCCTGCTTTGCAGTGCCATGTAAA
TCCCCACTGGGACCAACCCTGGGGAAGGAGCCAGTTTGCCGGATACAACTGGTATTCTGTTCTGGAGGAAAGGG
AGGAGTGGAGGTGGGCTGGGCCCTCTTCTCACCTTTGTTTTTGTGGAGTGTTCATAAACTTGGATTCT
CTAACCTTT

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FIGURE 5792

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEEYLYRYGYTRVAEMRGESKSLGPALLLLQ
KQLSLPETGELDSATLKAMRTPRCGVDPDLGRFQTFEGDLKWHHHNITYWIQNYSEDLPRAVIDDAFARAFALWSA
VTPLTFTRVYSRDADIVIQFGVAEHGDGYPPFDGKDGLLAHAFPPGPGIQGDAHFDDELWSLGKGVVVPTRFGNA
DGAACHFFFI FEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRDGNADGKPCQFFFIQOQSYS
ACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCAT
TSNFDSDKKWGFCDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPRPEPE
PRPPTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPSAGPTGPPTAGPSTATTVPLSPVDDACNVNIFDAIA
EIGNQLYLFDKGKYWRFSEGRGSRPQGPFLLIADKWPALPRKLDSVFEEPLSKKLFFFSGRQVWVYT GASVLGPRR
LDKLGLGADVAQVTGALRSGRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVFQYREKAYFCQ
DRFYWRVSSRSELNQVDQVGYVTYDILQCPED

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FIGURE 5793

ACTTCCGGTGGGGAGATTCCGGCCTGGAGCTCCAGGGCCGAGCAGACCTTGGGACCTGTGAGCGCTGCATCCAA
TTAACCATGGGAAGGGTCAGCACCAGCCACCAGCCCCTTAGGTGAGGACTCTGCCTGGGGCTCTGCTGATGGTTC
CGAATCATGGAGCTGCAGAGAGCTCCTCCAGCCTGGAGACGTTCTTGGTGAAAGCTGTGGTCTAACTCCACCGGC
TCTTCTGCACATTGTATTCAAGAGGGGTGCCTGCCCCCGCTGACTCAGGAGCTCCGGTGTGCAGCCGCCACGA
ATGGGGAGGTGGGCCCCTCGATGTGGCCTTTTTGTGGAAGGCGGTGTTGACCCTGGGGCTGGTGTCTCTACTAC
TGCTTCTCCATCGGCATCACCTTCTACAACAAGTGGCTGACAAAGAGCTTCCATTTCCCCCTCTTCATGACGATG
CTGCACCTGGCCGTGATCTTCTTCTTCCGCCCTGTCCAGGGCGCTGGTTCAGTGCTCCAGCCACAGGGCCCCGT
GTGGTGTGAGCTGGGCCGACTACCTCAGAAGAGTGGCTCCACAGCTCTGGCGACGGCGCTTGACGTGGGCTTG
TCCAACCTGGAGCTTCTGTATGTACCGTCTCGCTGTACACAATGACCAAATCCTCAGCTGTCTCTTCATCTTG
ATCTTCTCTCTGATCTTCAAGCTGGAGGAGCTGCGCGCGGCACTGGTCTTGGTGGTCTCTCATCGCCGGGGGT
CTCTTCATGTTACCTACAAGTCCACACAGTTCAACGTGGAGGGCTTCGCCCTTGGTGTGGGGGCTCGTTCATC
GGTGGCATTCTGCTGGACCTCACCCAGATGCTCCTGCAGAAGGCTGAACTCGGCCTCCAGAATCCCATCGACACC
ATGTTCCACCTGCAGCCACTCATGTTTCTGGGGCTCTTCCCTCTCTTTGCTGTATTTGAAGGTCTCCATTTGTCC
ACATCTGAGAAAATCTTCCGTTTCCAGGACACAGGGCTGCTCCTGCGGGTACTTGGGAGCCTCTTCTTGGCGGG
ATTCTCGCCTTTGGTTTGGGCTTCTCTGAGTTTCTTCTGCTTCCAGAACCTCCAGCCTCACTCTCTCCATTGCC
GGCATTTTTAAGGAAGTCTGCACTTTGCTGTTGGCAGCTCATCTGCTGGGCGATCAGATCAGCCTCCTGAAGTGG
CTGGGCTTCGCCCTCTGCCTCTCGGGAATATCCCTCCACGTTGCCCTCAAAGCCCTGCATTCCAGAGGTGATGGT
GGCCCCAAGGCCTTGAAGGGGCTGGGCTCCAGCCCCGACCTGGAGCTGCTGCTCCGGAGCAGCCAGCGGGAGGAA
GGTGACAATGAGGAGGAGGAGTACTTTGTGGCCAGGGGCGAGCAGTGACCAGCCAGGGCAAATGGCTTAGAAGCA
GGCCACTCCCCAGCCTGCTGCCAGCACTCACTGTGCTCAAGCCGCCAGGGCTCATCATGGTAGCTGGGAGCTGTG
GACGGGAGTCACCAGGTGGTGGGGCCAAGCCAGGGACTCATGACTTTTGCCCTCCCTTCAGAGCCTGGTTCACAC
AAGGGGCGAGCACCAGGCCAGCCTGGGACTGGCCAGAGCTGGGCCCCAAGCTGCGCTGGAATCGCAGCAGGAGAGG
GGAGTGGGCTGGTTCTTCCCACTTCCAGGCTCTGACAGCCGAGACTCATTTCCAAGGCACAGCAGCTTTCT
AAAGGGACTGAGTTTGGACTGGGTTTGGACCTCCAGGGGCTGGAGCTTCATCACCTGGGCAGTGTCTTTTCTCA
GAGAGCAGGTTTCTTTATAGTTTGGAAATAAATGGTTCACGGTCCACTGGCCGCTTGTGTTGCTGGAGACGTGG
GGCAGGGAGGGGACAGTGTGGGCCTGGCCTCTCCTTTCCCTTCCCTGCTGGAGCCTTCTTCAAATGTCTGGTC
TTAAGCCAGGCCTCCTTCATTTTCTCGCTCCTGTAGAACACCAGTCCCTCCCCAGTGGGGCCCCACTGCACCT
GCTGGCAGGAAATAAATGAATGTTTACTGAGTACTGCA

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FIGURE 5794

GCGCGCTCTGCTCGGCTGCAGGCTCAGGAAGCGGCGGGCGGCACGTGCTGGGCCAGAGCCCCGCGCCCTGCGTC
CAGCCGCCGGGTGTGTGCGCCCGGTAGCCACAGCTCGCGCCTCGGCGCCCCACGCGCCACGCAGCGGCGCGG
GGACCCGGGCGGGGCGAGGGAGGGCCCCGGCCAGGGAGGAGAAGGGGCGGCTCTCCCGGCGCAGGCAGCAGC
CGCGGCAGCCAGGAGCGGAGGCAGCGGCAACGGCAGAGACAGCAACGTGCCCCGCGCAGTCAGCCCGGCCTCG
TCGGACCCGCACCGGCCCGCCGCCCCGCGCCGCGCTCGGGGCGCCCTCTCCACTGCGCGCGGTACAAGGAAA
TGGTAGAACTAGTGATCTACCCAGCCTCACTGTAAACAGCGATTGTCTGGATAAACTGAAGTTTAACCGTGCTG
ACGCTGCTGTGTGGACTCTGAGTGACAGACAAGGCATCACCAAATCGGCCCCCTGAGAGTGTCCAGCTCTTCT
CCAGATCTTGCCACGTGTCTCCCCCGCCAGCCTTCCACAGCCATGGCAGCCTACGGCCAGACGCAGTACAGTG
CGGGGATCCAGCAGGCTACCCCTATACAGCTTACCCACCTCCAGCACAAGCCTATGGAATCCCTTCCTACAGCA
TCAAGACAGAAGACAGCTTGAACCATTCCTTGGCCAGAGTGGATTCTCAGCTATGGCTCCAGCTTCAGCACCT
CACCCACTGGACAGAGCCCATACCTACCAGATGCACGGCACAACAGGGTTCTATCAAGGAGGAAATGGACTGG
GCAACGCAGCCGGTTTCGGGAGTGTGCACAGGACTATCCTTCCCTACCCCGGCTTCCCCAGAGCCAGTACCCCG
AGTATTACGGCTCATCTACAACCTCCCTACGTCCCGGCCAGCAGCATCTGCCCTTCGCCCCCTCTCCACGTCCA
CCTACGTCTCCAGGAGGCATCTCACAACGTCCCCAACAGAGTTCGAGTCACTTGCTGGTGAATACAACACAC
ACAATGGACCTTCACACCAGCGAAAGAGGGAGACACAGACAGGCCGCACCGGGCCTCCGACGGGAAGCTCCGAG
GCCGGTCTAAGAGGAGCAGTGACCCGTCCCCGGCAGGGGACAATGAGATTGAGCGTGTGTTCGTGTGGGACTTGG
ATGAGACAATAATTATTTTCACTCCTTACTCACGGGGACATTTGCATCCAGATACGGGAAGGACACCACGACGT
CCGTGCGCATTTGGCCTTATGATGGAAGAGATGATCTTCAACCTTGAGATACACATCTGTTCTTCAATGACCTGG
AGGATTGTGACCAGATCCACGTTGATGACGTCTCATCAGATGACAATGGCCAAGATTTAAGCACATACAACCTTCT
CCGCTGACGGCTTCCACAGTTTCGGCCCCAGGAGCCAACCTGTGCCTGGGCTCTGGCGTGCACGGCGCGTGGACT
GGATGAGGAAGCTGGCCTTCCGCTACCGGCGGTGAAGGAGATGTACAATACCTACAAGAACAACGTTGGTGGGT
TGATAGGCACTCCCAAAAGGGAGACCTGGCTACAGCTCCGAGCTGAGCTGGAAGCTCTCACAGACCTCTGGCTGA
CCCACTCCCTGAAGGCACTAAACCTCATCAACTCCCGGCCAACTGTGTCAATGTGCTGGTCACCACCACTCAAC
TAATTCCTGCCCTGGCCAAAGTCCTGCTATATGGCCTGGGGTCTGTGTTTCTATTGAGAACATCTACAGTGCAA
CCAAGACAGGGAAGGAGAGCTGCTTCGAGAGGATAATGCAGAGATTCGGCAGAAAAGCTGTCTACGTGGTGATCG
GTGATGGTGTGGAAGAGGAGCAAGGAGCGAAAAAGCACAAACATGCCTTTCTGGCGGATATCTGCCACGCAGACC
TGGAGGCACTGAGGCACGCCCTGGAGCTGGAGTATTTATAGCAGGATCAGCAGCATCTCCACCTGCCATCTCACC
CTCAGACCCCCCTCGCCTTCCCCACCTCCCCACCGAGAATCCAGAGACCCAGATGTTGGACACCAGGAAGGGGCC
CCACAGCCGAGACGAGCTGTCCAGTGACCATCTCAGAAGCCGTCCATCAGTCCAAATGGGGGTCTGAGAAGGAA
AGTACCCAACATTGGCTTCGGAGTATTTGACTTTGGGGAAAAGGGCTGGCTCGGAGTCTAGACTCTTCTGTAAGA
CTCACAGAACAAAAGCAAGGAATTGCTGATTTGGGGGGTGCCTGGTGTGATGAGGAGGGGATGGGTTTGTCTTGTCT
TCTTTTAAATTTATGGAAGTCTCATTACTCCGGAATTATGCTCTTGTTACCTGTGTGGCTGGGTTTCTTAGTCG
TTGGTTTGGTTTGGTTTGTGAAGTGGTATGTGGGGTGGTTACAGTTCTAATGTAAGCACTCTATTCTCCAAGT
TGTGCTTTGTGGGGACAATCATTCTTTGAACATTAGAGAGGAAGGCAGTTCAAGCTGTTGAAAAGACTATTGCTT
ATTTTGTTTTAAAGACCTACTTGACGTATGTGGACAGTGCACGTGCCTTACGCTACATCTTGTCTTCTAGGA
AGAGGGGGATGCTGGGAAGGAATGGGTGCTTTGTGATGGATAAAAGGCATTAAATAAAACCACGTTTACATTTTG

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FIGURE 5795A

CGGCGCCGCGCGGCCGCGCTAGAATGGAGGCGCCAGCGGCAGCGAGCCCGGCGGCGACGGGGCCGGGGACTGCG
CCCACCCGGACCCCCGGGCCCCCTGGCGCCGCGGCGCCAGCTCCGGCCCCGGCCCCGTGCGCGGCCGCCCGGGAGT
CCGAGCGCCAGCTGCGCCTCCGCCTCTGCGTCTCAACGAGATCTTGGGCACCGAGAGGGACTACGTGGGCACCT
TGCGCTTCTTGCACTCGGCATTCTGTCATCGCATCCGGCAGAACGTGGCCGACTCAGTGGAGAAGGGCCTCACGG
AGGAGAATGTCAAGGTCTGTCTCTGAACATCGAAGACATCCTGGAAGTTTATAAGGATTTCTTGGCCGCTTGG
AGTATTGTTTACACCCGGAGCCGAGTCTCAGCATGAACCTTGGGAATGTTTTCTTAAATTCAAGGACAAGTTCT
GCGTGTACGAGGAGTATTGAGCAACCATGAGAAAGCCCTGAGGCTGCTGGTGGAGCTGAACAAGATCCCTACCG
TGCGCGCCTTCTTTTGGAGCTGTCATGCTTCTGGGAGGCGGGAAGACCACGGACATCCCTTTGGAAGGCTACCTGT
TGTCTCCGATCCAGAGGATCTGCAAGTACCCGCTCCTCCTTAAGGAGCTGGCCAAGAGGACTCCCGGCAAGCACC
CAGACCACCCCGGGTCCAGAGTGCCCTGCAGGCCATGAAGACCGTTTGCTCCAACATCAATGAGACCAAGCGGC
AGATGGAGAAGCTGGAAGCCCTGGAGCAGCTGCAGTCCCACATCGAAGGCTGGGAGGGTTCCAACCTCACAGACA
TCTGCACTCAGCTCCTCCTGCAAGGGACTTTGTTAAAGATCTCTGCGGGCAACATCCAGGAAAGGGCCTTCTTCC
TCTTCGACAACCTTCTCGTCTACTGCAAGCGGAAATCCAGGGTCACCGGGAGCAAGAAGTCCACCAAGAGGACCA
AATCCATCAACGGCTCCCTCTACATCTTCAGGGGTGCAATCAACACTGAAGTCATGGAGGTGGAGAATGTGGAAG
ATGGGACAGCGGATTACCATAGCAACGGCTATACCGTCACCAACGGCTGGAAGATCCACAACACGGCCAAGAATA
AGTGGTTTGTCTGTCATGGCCAAGACGGCAGAGGAGAAGCAGAAGTGGCTGGATGCCATCATCCGCGAGCGGGAGC
AGCGCGAGAGCCTGAAGCTGGGCATGGAGCGTGATGCCTACGTCTATGATTGCGGAGAAGGGGGAGAAGCTGTACC
ACATGATGATGAACAAGAAGGTGAACCTCATCAAGGACCGCCGGAGAAGCTGAGCACTGTCCCCAAGTGCTTTC
TTGGCAATGAGTTGCTTGCCTGGCTCCTAGAAATTGGTGAAATCAGCAAGACGGAAGAAGGAGTCAACTTGGGCC
AAGCCCTGTTGGAGAATGGCATCATCCACCATGTTTCCGACAAGCACCAGTTCAAGAATGAGCAGGTGATGTATC
GCTTCCGCTACGACGATGGCACCTACAAGGCCCGAAGTGAGCTGGAGGACATCATGTCCAAGGGTGTGAGGCTTT
ACTGCCGTCTTACAGCCTCTACACCCCGGTGATCAAAGACCGTGATTACCACCTGAAGACCTACAAGTCAGTGC
TTCCCGGGAGCAAGCTGGTGGACTGGCTGCTGGCTCAGGGAGACTGCCAGACTCGGGAGGAGGCAGTGGCGCTCG
GCTGGGTCTGTGCAACAATGGCTTCATGCACACGTGCTGGAGAAGAGCGAGTTTCAAGGATGAGTCCCACTACT
TCCGCTTTCATGCTGACGAGGAGATGGAGGGGACCAGCAGCAAGAACAACAGCTTCGCAACGACTTCAAGCTGG
TGGAGAACATTCTGGCCAAGCGCCTGCTGATCTGCCCGAGGAGGAGTATGGCTTTGACATCGAGGAGAAGA
ACAAGGCTGTGGTGGTGAAGTCCGTCCAGAGGGCTGCTGGCTGAGGTGGCTGGCCTGCAGGTGGGGAGGAAGA
TCTACTCCATCAATGAGGACCTGGTGTTCCTGCGGCCGTTTTTCAGAGGTGGAGTCCATCCTCAACCACTCCTTCT
GCTCCCGCCGCCCTCTGCGCCTCCTGGTGGCCACGAAGGCCAAAGAGATCATAAAATCCCCGACCAGCCGGACA
CACTGTGCTTCCAGATTCTGAGGCTGCCCCACCGTACGTCTATGCTGTGGGGAGAGGCTTGAGGCCATGGCTG
CAGGGCTCTGTGCTGGTCAGTGCATTCTGAAGGTCAATGGCAGCAACGTGATGAACGATGTTGCCCTGAGGCTCC
TGGAGCACTTCCAGGCATTCCGGAGTCGGCGCGAAGAGGCCCTGGGCCTGTACCAGTGGATCTACCAACCCATG
AGGATGCCCAGGAAGCACGAGCCAGTCAGGAGGCCTCCACTGAGGACCCAGTGGCGAGCAGGCCAGGAGGAAG
ACCAGGCTGATTACGCCTTCCCACTGCTGTCCCTGGGTCCCCGGCTGAGCCTGTGTGAGGACAGCCCCATGGTCA
CCCTGACTGTGGACAACGTGCACCTGGAACACGGCGTGGTGTATGAGTATGTGAGCACGGCAGGCGTCAGGTGCC
ATGTGCTGGAGAAGATCGTGGAGCCCCGCGGCTGCTTCGGCCTCACCGCCAAGATCCTCGAGGCCTTTGCTGCCA
ATGACAGCGTCTTCGTGGAGAACTGCAGGCGGCTCATGGCCCTGAGCAGCGCCATCGTGACCATGCCCCACTTTG
AGTTCCGCAACATCTGTGACACCAAGCTGGAGAGCATTGGCCAGAGGATTGCCTGCTACCAGGAGTTTGCAGCCC
AACTGAAGAGCAGGGTCAGCCACCCTTCAAACAAGCCCCCTGGAGCCCCACCCGCTGTGTGGCCTGGACTTCT
GCCCCACCAATTGCCACATCAACCTCATGGAAGTGTCTACCCCAAGACCACCCCTCAGTGGGCAGGTCTTTCA
GCATCCGCTTTGGACGCAAACCTCCCTCATCGGCCTTGACCGGAGCAAGGCCACCTGAACCCCATGTCTGTACA
CCCAGCACTGCATCACCACCATGGCTGCTCCCTCCTGGAAGTGTTCCTGCTGTCAGAGGGTGATCCCCAAGGCC
AGGGTCTCCATGATGGCAGCTTCGGGCCAGCCAGTGGGACCCCTTGGTCAGGAAGACCGGGGCTCAGCTTCTTAC
TCAAGCAGGAGGACCGTGAGATCCAGGATGCCTACCTGCAGCTCTTACCAAGCTGGATGTGGCCCTGAAGGAGA
TGAAGCAATATGTACCCAGATCAACAGGCTGCTGTCCACCATCACAGAGCCACCTCGGGTGGGTCTGCGACG
CATCCTTGGCTGAGGAGGCCTCCTCCCTGCCCCCTGGTCAGTGAAGAGAGCGAGATGGACAGGAGTGACCATGGGG
GCATCAAGAAGGTGTGCTTCAAGGTGGCCGAGGAGGACCAGGAGGACTCAGGCCACGACACCATGAGTTATCGCG
ACTCCTACAGCGAGTGTAAACAGCAATCGAGACTCGGTCTGTCTTACACAGCGTGAGAAGTAACAGCTCCTACT

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FIGURE 5795B

TGGGCAGCGACGAGATGGGGTCTGGAGATGAGCTGCCCTGTGACATGCGGATCCCATCTGACAAGCAGGACAAGC
TTCATGGCTGCCCTGGAGCACCTCTTTAACCAGGTGGACTCCATCAATGCTCTCCTCAAGGGGCCAGTCATGAGCC
GGGCTTTTGAAGAGACCAAGCATTTCCTATGAACCACAGCTTACAAGAGTTTAAACAGAAAGAAGAGTGTACAA
TCCGTGGCCGGAGCCTGATCCAGATTAGCATCCAGGAGGACCCCTGGAACCTCCCCAACTCCATCAAGACCCTGG
TGGACAACATTGAGAGATATGTGGAAGATGGGAAGAACCAGCTGCTCCTGGCCTTGCTGAAGTGCACAGACACGG
AGCTGCAGCTGCGCAGAGACGCGATCTTCTGCCAGGCCCTGGTGGCCGCCGTGTGCACCTTCTCCAAGCAGCTGC
TGGCGGGCCCTGGGCTACCGCTACAACAACAATGGCGAGTACGAGGAGAGCAGCCGCGACGCCAGCCGCAAGTGGC
TGGAGCAGGTGGCGGCCACGGGCGTCTGTGCTGCACTGCCAGTCCCTGCTCTCGCCAGCCACAGTGAAGGAGGAAC
GGACCATGTGAGGACATCTGGGTGACGCTGTGAGAGCTGGACAATGTACCTTCTCCTTTAAGCAGCTGGACG
AGAACTATGTGGCCAACACCAACGTCTTCTACCACATTGAGGGCAGCCGGCAGGCGCTGAAGGTATCTTCTACC
TCGACAGCTACCACTTCTCCAAGCTGCCCTCCCGCCTGGAGGGTGGGGCCAGCCTGAGGCTGCACACAGCGCTGT
TCACGAAAGTGCTGGAGAACGTGGAGGGGCTGCCTTCTCCAGGCAGCCAGGCCGCGGAGGATTTGCAGCAGGACA
TCAACGCGCAGTCCCTGGAGAAAGTTTACAGAGTATTACCGCAAACCTCAGGGCATTTTACCTGGAGCGGTCTAAC
TGCCACGGATGCCAGCACCGCGGTAAAGATAGACCAGCTGATCCGCCCATCAATGCCCTGGATGAGCTCT
GCCGCTCATGAAGTCTTTGTCCACCCAAAGCCTGGTGTGCTGCTGGGAGTGTGGGCGCCGGCCTCATCCCCATCT
CCTCGGAGCTCTGCTACCGCCTGGGGGCTGCCAGATGGTCATGTGTGGCACAGGCATGCAGAGGAGCACCTGA
GCGTGTCCCTGGAGCAGGCGGCCATCTTGGCACGGAGCCACGGGTTGCTGCCCAAGTGCATCATGCAGGCCACGG
ACATCATGCGGAAGCAGGGCCCAAGGGTGGAGATTCTGGCCAAAACCTGCGAGTCAAGGACCAGATGCCCCAGG
GTGCTCCGCGCCTCTACCGCCTCTGCCAGCCGCCGGTGGATGGGGACCTCTGAACACCCAAATGCCCCACGCTGG
GCCGCGCCTCTGGAGCTGGGATTGGGAGGACACAGCAGGCAGCGCTGGCCACCCTCGCTGTGATGACGAGCTG
GCTGATTGGCCCTGGGCGGGCCATTCTTACACGCCTGCCAGAAGCTGGAGGGGTGCTGGAGACCCATAGAGCT
GATGGGAGCAGCTGGTGCCTGGCCTTCGGCTCCTGCGTCCCCAGAACCACAGGGAACGTATGGAGGCCACATGG
GGCACCCTGGCTCCCTCGGGATGGCTCCGCTGCACTTTTGAACCCCGGTTTCTTCAACGTCCACATTCCAGG
TGACCACACGTGTCTCCTCCTCCTCATCTTAGCTTCCAGGTTACCCTAACCTGTACTAACCTGCTTGGTGGAC
TTGAAAAAGACTTGGCTCTGTGCGGAAAGGAGAGACGGGGCCTCCATCACGCTGTTACCAGAGGATCCCCGAGA
GCCACACCAGCTCTGGACATCACCGCCCTGGAACCTGGGGCCACCAGCCCTGGGCACGAGATTGCTCTGACTTT
ATTTATATGGCATGAAATCTCTGGTTTATTTTGGGATTTTTTGTGTTGGTGTGTTCAAGTTTGTTTTTTCTAA
AGTTGTGTGATTATATATTTGACATTTTACATTTTCAAAGAAAGGTATGTTGTCTAACAGGGGACCAACAGAAGGT
AGTATTGACAACGTGTTCTGCTTCTACTAAAAAAGAGCAGCAAAAAGAAAACTAAATTATTGAAAAATTAA
AAATGTCAATTGTTTCTGTTTGTAAATATTAGGGTTGTAAGGTGTCGTTTTGAGGTATCGACTGTGATTCTTCC
CCCACCTCCATTCTCCAGCGGTTGGCCGGTGTAGAACTCGCTCTCTTTGAGTGACTGGCTACAAGGGCCTGAG
AGGTGGCCAGCCAGGGTTGGAGCTGGAGGGGATGGAGCCCCACCTGAGGTGCCGTGTACACGGGTTAGAGGGTC
ACTGGGAAACACCGGGCGGTGGCTTCTGTGATTTATTTTCTTGATGGTAACCTCTCAGAGCAGGGCGATTGGGAC
ATCACCAGCCAGAGCACAGGAAGCCACCCTGCCTGCTGGGGAGGAGGACCCACACAAGCCCCCTCGGCAGTTTG
TCCCCCAGCTTCGGTATGCCTTCAGGGAAAGGTACAGCTGGGGAGGAAGCGGGGGGACGCTGTACACCCCTGG
CAGGTGGTGAAGTTCAGGTGGGGGCTCCCTGCTGCCCCAGGCCCTGGGAGCTTGAAGCCCTCCCGGCATCTGGCAT
CCGAGCCTCCCGCCCTCCAGGGTGCCTTCCCTCTCTTGCCGCAGCATAACAGAGGGCAGGCAGTGGCCTTGTCA
CTGTATCTTGCATCAGAGACAAAGGAGGACCCGCTTTAGCCCTGCTGCGGGAATGGGGGAGGGCCAGGGCCAG
CGCATTGTGCACTGGTTTACTTTAAATGTACAGATTCTTCTCGTTAAATTCTTGATAGATTTTTTATTATTATT
AAAAGTCAGTTTATAATAC

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FIGURE 5796A

GCATTCCTGGCCCCGCCCCCTGCAGCGGGCCGCTCGCTCATGCGCTCTGGCCTCAGGCTCGCTGTGCGGCCATTT
TGCCGGGGTTTGAATGTGAGGCGGAGCGGGCGGCAGGAGCGGGTAGTGCCAGCTACGGTCCGCGGCTGGGGTTCCC
TCCTCCGTTTCTGTATCCCCACGAGATCCTATAGCAATGGAACCTCAGCGATGCAAATCTGCAAACACTAACAGAA
TATTTAAAGAAAAACACTTGATCCTGATCCTGCCATCCGACGTCCAGCTGAGAAATTTCTTGAATCTGTTGAAGGA
AATCAGAATTATCCACTGTTGCTTTTGACATTACTGGAGAAGTCCCAGGATAATGTTATCAAAGTATGTGCTTCA
GTAACATTCAAAAACTATATTTAAAGGAACTGGAGAATTGTTGAAGATGAACCAAAACAAAATTTGTGAAGCCGAT
CGAGTGGCCATTAAAGCCAACATAGTGCACTTGATGCTTAGCAGCCCAGAGCAAATTCAGAAGCAGTTAAGTGAT
GCAATTAGCATTATTGGCAGAGAAGATTTTCCACAGAAATGGCCTGACTTGCTGACAGAAATGGTGAATCGCTTT
CAGAGTGGAGATTTCCATGTTATTAATGGAGTCTCCGTACAGCACATTCAATTATTTAAAGATACCGTCATGAA
TTTAAGTCAAACGAGTTATGGACTGAAATTAAGCTTGTTCTGGATGCCTTTGCTTTGCCTTTGACTAATCTTTTT
AAGGCCACTATTGAACTCTGCAGTACCCATGCAAATGATGCCTCTGCCCTGAGGATTCTGTTTTCTTCCCTGATC
CTGATCTCAAAATTTGTTCTATAGTTTAACTTTTCAGGATCTCCCTGAATTTTTTGAAGATAATATGGAACTTGG
ATGAATAATTTTCACTCTCTTAACATTGGATAATAAGCTTTTACAACTGATGATGAAGAGGAAGCCGGCTTA
TTGGAGCTCTTAAATCCCAGATTTGTGATAATGCCGCACTCTATGCACAAAAGTACGATGAAGAATTCCAGCGA
TACCTGCCTCGTTTTGTTACAGCCATCTGGAATTTACTAGTTACAACGGGTCAAGAGGTTAAATATGATTTGTTG
GTAAGTAATGCAATTCAATTTCTGGCTTCAGTTTGTGAGAGACCTCATTATAAGAATCTATTTGAGGACCAGAAC
ACGCTGACAAGTATCTGTGAAAAGGTTATTGTGCCTAACATGGAATTTAGAGCTGCTGATGAAGAAGCATTTGAA
GATAATTCTGAGGAGTACATAAGGAGAGATTTGGAAGGATCTGATATTGATACTAGACGCAGGGCTGCTTGTGAT
CTGGTACGAGGATTATGCAAGTTTTTTGAGGGACCTGTGACAGGAATCTTCTCTGGTTATGTTAATCCATGCTG
CAGGAATACGCAAAAAATCCATCTGTCAACTGGAACACAAAAGATGCAGCCATCTACCTAGTGACATCTTTGGCA
TCAAAAGCCCCAACACAGAAGCATGGAATTACACAAGCAAATGAACCTGTAAACCTAACTGAGTTCTTTGTGAAT
CACATCCTCCCTGATTTAAATCAGCTAATGTGAATGAATTTCTGTCTTAAAGCTGACGGTATCAAATATATT
ATGATTTTTAGAAATCAAGTGCCAAAAGAATCTTTTAGTCTCGATTCTCTCTTGATTAATCATCTTCAAGCT
GAAAGTATTGTTGTTTCACTTACGCAGCTCATGCTCTTGAACGGCTCTTTACTATGCGAGGGCCTAACAAATGCC
ACTCTCTTTACAGCTGCAGAAATCGCACCGTTTTGTTGAGATTCTGCTAACAAACCTTTTCAAAGCTCTCACACTT
CCTGGCTCTTCAGAAATGAATATATTATGAAGCTATCATGAGAAGTTTTTCTCTCTACAAGAAGCCATAATC
CCCTACATCCCTACTCTCATCACTCAGCTTACAGCAAGCTATTAGCTGTTAGTAAGAACCAAGCAAACCTCAC
TTTAATCACTACATGTTTGAAGCAATATGTTTATCCATAAGAATAAAGTGAAGCTAACCTGCTGCTGTTGTA
AATTTTGAGGAGGCTTTGTTTTTGGTGTCTTACTGAAATCTTACAAAATGATGTGCAAGAATTTATCCATACGTC
TTTCAAGTGATGCTTTGCTTCTGGAAACACACAAAATGACATCCCGTCTTCTATATGGCCTTATTTCTCAT
CTCCTTCAGCCAGTGCTTTGGGAAAGAACAGGAAATATTCTGTCTAGTGAGGCTTCTTCAAGCATTCTTAGAA
CGCGGTTCAAACACAATAGCAAGTGCTGCAGCTGACAAAATTCCTGGGTTACTAGGTGCTTTTTCAGAACTGATT
GCATCCAAAGCAAATGACCACCAAGGTTTTTATCTTCTAAACAGTATAATAGAGCACATGCCTCCTGAAGCTGATT
GACCAATATAGGAAACAAATCTTCAATCTGCTATTCCAGAGACTTCAGAATTCAAAAACAACCAAGTTTATCAAG
AGTTTTTTAGTCTTTATTAATTTGTATTGCATAAAATATGGGGCACTAGCACTACAAGAAATATTTGATGGTATA
CAACCAAAAATGTTTGGAAATGGTTTTGGAAAAAATTATTATCTGAAATTCAGAAGGTATCTGGAAATGTAGAG
AAAAAGATCTGTGCGTTGGCATAACCAAATTACTAACAGAATGTCCCCCAATGATGGACACTGAGTATACCAAA
CTGTGGACTCCATTATTACAGTCTTTGATTGGTCTTTTTGAGTTACCCGAAGATGATACCATTCTGATGAGGAA
CATTTTTATTGACATAGAAGATACACCAGGATATCAGACTGCCCTTCTCACAGTTGGCATTGCTGGGAAAAAGAG
CATGATCCTGTAGGTCAAATGGTGAATAACCCCAAAATTCACCTGGCACAGTCACTTACAAGTTGTCTACCGCC
TGTCCAGGAAGGGTTCCATCAATGGTGAGCACCAGCCTGAATGCAGAAGCGCTCCAGTATCTCCAAGGGTACCTT
CAGGCAGCCAGTGTGACACTGCTTTAACTGCATTTTTCTAATGGGCTAAACCCAGATGGTTTCTAGGAAATCA
CAGGCTTCTGAGCACAGCTGCATTAAACAAAGGAAGTTCTCCTTTTGAACCTGTACGAATTCATCTTGTA
GGATATTAATGTTGCTTTAACCTGAACCTTGAGCAAATTAGTTGGTTTGTGTGATCATACAGTTATGTGGGTGG
CTTCTAGTTTGAACCTTCAAGGGACAAGTATTAATAGTTTCAAGTGTATGGCGTTGGTTTGTGTTGAGCGTTTGCAC
GGTTTGGATAATCTTAAATTTTACGGACACTGTGGAGACTTCTGTTACTAAATCCTTTTGTGTTTGAAGCTGTT
GCTATTTGTATTTCTTGTCTTTATATTTTTTGTCTGTTTATTTACGCTTTTATTGGAAATGTGAATAAGTAA
AGAATTACTTGTGTTACTTGCCAAGCAGTGCACATTCATAGTTTCAAATCTGTAATCAGCAATAAAAAATCCTAA

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FIGURE 5796B

AATATGTACCT

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FIGURE 5797

MELSDANLQTLTEYLKKTLDPDPAIRRPAAEKFLSVVEGNQNYPLLLLLTLLEKSQDNVIKVCASVTFKNYIKRNWR
IVEDEPNKICEADRVAIKANIVHMLSSPEQIQKQLSDAISIIIGREDFPQKWPDLLEMVNRFSQSGDFHVGVL
RTAHSLEFKRYRHEFKSNELWTEIKLVLDALPLTNLFKATIELCSTHANDASALRILFSSLILISKLFYSLNFQ
DLPEFFEDNMETWMNNFHTLLTLDNKLLQTDDEEEAGLLELLKSQICDNAALYAQKYDEEFQRYLPRFVTAIWNL
LVTTGQEVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIVPNMEFRAADEEAFEDNSEEYIRRDLE
GSDIDTRRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNP SVNWKHKDAAIYLVTSLSKASQATQKHGITO
ANELVNLTEFFVNHILPDLKSANVNEFPVLKADGIKYIMIFRNQVPKEHLLVSIPLLINHLQAESIVVHTYAAHA
LERLFTMRGPNNATLFTAAEIAFPVEILLTNLFKALTLPGSSENEYIMKAIMRSFSLQEAIIPIPTLITQLTQ
KLLAVSKNPSKPHFNHYMFCAICLSIRITCKANPAAVVNFEELFLVFTEILQNDVQEFIPYVFQVMSLLETHK
NDIPSSYMALEFPHLLQPVWERTGNIPALVRLLOAFLEGRSNTIASAAADKIPGLLGVFQKLIASKANDHQGFYL
LNSIEHMPPEESVDQYRKQIFILLFQRLQNSKTTKFIKSFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKI
IIPFIQKVSGNVEKKICAVGITKLLTECPPMMDTEYTKLWTPLLQSLIGLFELPEDDTIPDEEHFIDIEDTPGYQ
TAFSQLAFAGKKEHDPVGMVNNPKIHQAQSLHKLSTACPRVPSMVSTSLNAEALQYLQGYLQAASVTLL

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FIGURE 5798

AAGTGACGCATGGTACTTGCGCAAAGACGACGAGGAGGCTGCGAAAAGTTAAGGGCCGGACCGCAGGCTGTGCTC
GCTTCCGGAAGTGGCTTCTGCGACAACATGCTTGCGGACCTCGGCTTAATCGGAACCATAGGCGAGGATGACGAG
GTGCCGGTGGAGCCCGAGTCTGACTCCGGGGACGAGGAAGAGGAGGGGCCATTGTGCTGGGCAGACGACAAAAA
GCTTTGGGGAAGAACCAGTGTGATTTCAACCCTGATTTTCGTTTTCTGAGAAAGGAGGGGACGTACGATGGC
AGCTGGGCCCTGGCTGATGTCATGAGCCAACCTCAAGAAGAAGAGGGCAGCCACTACATTAGATGAGAAGATTGAG
AAAGTTCGAAAAGAAAAGGAAAAACAGAGGATAAAGAAGCCAAGTCTGGGAAGTTGGAAAAGGAGAAAAGAAGCAAAG
GAAGGCTCTGAACCAAAGGAGCAGGAAGACCTTCAAGAGAATGATGAGGAAGGCTCAGAAGATGAAGCCTCGGAG
ACTGACTACTCATCAGCTGATGAGAACATCCTCACCAAAGCAGATACACTCAAAGTAAAGGATCGGAAGAAGAAG
AAGAAGAAAGGACAGGAAGCAGGAGGATTTTTTGAAGATGCATCTCAGTACGATGAAAACCTCTCGTTCCAGGAC
ATGAACCTTTCCCGCCCTCTTCTGAAGGCCATTACAGCCATGGGCTTCAAGCAGCCCACCCCGATCCAGAAGGCG
TGCATACCTGTGGGTCTATTGGGGAAGGACATCTGTGCCTGTGCAGCCACTGGGACAGGTAAACTGCCGCCCTT
GCCCTGCCTGTTTTGGAGCGTCTGATTTATAAACCCCGCCAGGCTCCAGTCACCCGCGTGCTGGTGCTAGTGCCC
ACCCGAGAGCTGGGCATCCAGGTGCACTCTGTCAACAGACAGCTGGCCAGTTCTGCAACATCACCACCTGCCTG
GCTGTGGGCGGCTTGATGTGAAGTCTCAGGAAGCAGCTCTTCGGGCAGCGCTGACATCCTCATCGCCACCCCA
GGCCGGCTCATCGATCACCTCCACAACCTGCCCTTCCCTTCCACCTGAGCAGCATCGAGGTGCTCATCCTGGACGAG
GCTGACAGGATGCTGGATGAGTACTTTGAGGAGCAGATGAAGGAGATCATCCGAATGTGTTCCACCAACCGCCAG
ACCATGCTCTTCTCGGCCACCATGACAGACGAGGTGAAAGATCTGGCTTCTGTCTCCTTGAAGAATCCTGTCCGG
ATATTGTGAACAGCAACACAGATGTGGCTCCCTTCTGCGGCAGGAGTTCATCCGGATCCGGCCTAATCGTGAA
GGAGACCGGGAAGCCATCGTGACGCTTTGTTGACGAGGACCTTCACTGACCATGTGATGCTGTTACGCAAAACC
AAGAAGCAGGCCCCACCGCATGCACATCCTCCTGGGGCTCATGGGGCTGCAGGTGGGTGAGCTCCATGGCAACTTG
TCACAGACGCAGCGGCTGGAGGCCCTCCGGCGTTTTAAGGATGAACAGATTGACATCCTCGTGGCCACTGATGTG
GCAGCCCGTGGACTTGACATTGAGGGGGTCAAAACGGTAATCAACTTCACAATGCCTAATACCATCAAACATTAT
GTCCACCGGGTGGGGCGAACAGCAGCAGTGCTGGCAGGGCTGGGCGCTCAGTCTCTCTGGTGGGAGAAGATGAGCGG
AAGATGCTGAAGGAGATTGTAAAAGCTGCCAAGGCCCTGTGAAGGCCAGGATACTTCCCAAGATGTCATCCTC
AAATTCCGGGACAAGATTGAGAAAATGGAGAAAGATGTGTATGCAGTTCTGCAGCTAGAGGCGGAGGAAAAAGAG
ATGCAGCAGTCAGAAGCCCAGATCAATACAGCAAAGCGGCTCCTGGAGAAGGGGAAGGAGGCAGTGGTCCAAGAG
CCCAGAGAGGAGCTGGTTCCAGACCAAAGAAGAGAGGAAGAAGGAGAAAATTGCCAAAGCTCTGCAGGAATTTGAC
TTGGCCTTAAGAGGAAAGAAGAAAAGGAAGAAGTTTATGAAGGATGCCAAAAAAGGGGGAGATGACAGCAGAG
GAAAGGTCTCAGTTTGAATCCTCAAGGCGCAGATGTTTGCTGAACGGCTAGCGAAGAGGAATCGCAGAGCCAAG
CGGGCCCCGAGCAATGCCCGAGGAGGAGCCAGTGAGAGGTCTGCCAAGAAGCAAAAGCAGGGGAAGAAATCTGTA
TTTGATGAAGAACTACCAACACAAGCAAGAAGGCCCTGAAACAGTATCGAGCTAGCCCTTCCCTTTGAAGAAAGG
AAACAGTTGGGCTTGCCCCACCAGAGACGAGGAGGAACTTTAAATCTAAATCCAGATACAAGAGGAGGAAGTAG

CTGTGCTGGCCTGAAGAAATTCATGGGGGCAGCCCTTAAATCCCTTCCCTGTGGGAAGTCATCCTGGCTGGTCTG
TCTTTTCTCCATTTGTTTAAAAAACAACAAACAAACACTTTGGTGTGGTGGTATGGTACGTAGCTA
TTTTCTAAGCATGTCTGTCAATCTCCCTTCTTGCTGATTAGCTTTCATATGACTATATTAAATGGAAGTATTT
TGGGAAAAGAGAAACCAAAAAAAAAAAAAA

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FIGURE 5799

MVLAQRRRGCEKLRAGPQAVLASGSGFCDNMLADLGLIGTIGEDDEVPVEPESDSGDEEEEGPIVLGRRQKALG
KNRSADFNPDFVFTEKEGTYDGSWALADVMSQLKKKRAATTLDEKIEKVRKKRKTEDKEAKSGKLEKEKEAKEGS
EPKEQEDLQENDEEGSEDEASETDYSSADENILTKADTLKVDRKKKKKKKGQEAGGFEDASQYDENLSFQDMNL
SRPLLKAITAMGFKQPTPIQKACIPVGLLGKDICACAATGTGKTAALFALPVLERLIYKPRQAPVTRVLVLPVPTRE
LGIQVHSVTRQLAQFCNITTCLAVGGLDVKSQEAALRAAPDILIATPGRLIDHLHNCPSFHLSSIEVLILDEADR
MLDEYFEEQMKEIIRMCSSHRQTMLFSATMTDEVKDLASVSLKNPVRI FVNSNTDVAPFLRQEFIRIRPNREGDR
EAI VAALLTRFTD HVM LFTQT K KQAH RMHILLGLMGLQVGELHGNLSQTQRLEALRRFKDEQIDILVATDVAAR
GLDIEGVKTVINFTMPNTIKHYVHRVGRTARAGRAGRSVSLVGEDERKMLKEIVKAAKAPVKARILPQDVILKFR
DKIEKMEKDVYAVLQLEAEEKEMQQSEAQINTAKRLLEKGKEAVVQEPERSWFQTKEEKKEKIAKALQEFDLAL
RGKKKRRKKFMKDAKKKGEMTAEERSQFEILKAQMFAERLAKRNRRAKRARAMPEEEPVRGPAKKQKQGKKS VFDE
ELTNTSKKALKQYRASPSFEERKQLGLPHQRRGGNFKSKSRYKRRK

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FIGURE 5800

GAAAATGATCTCCAAAAGATTTCTCAGCAAGGCAGATTTACTTCTGCAGAATGGTGCTGCTTGCACCTCCTGGTCA
CAGTGAGAGCACCCCGAACAAAGGAGGTGAAGTGGTTTTTATCCCTAACACAGCTAGTTCCTGCTTCTGTGTTCT
ATCCCCATTGGCTAGAGTCCAATCTAAACTAGTCTGATTGGCTATTTTAAACAGGAGGGGTGTGGGTACAGCA
GTGGGAAGAGCAGTTGCCACGAGCGAGGGAGACTTTTCCAGATAAGGAACAAATGCGGGTTACAGGTGGGATTG
GTGGGAGAAATGTTTACAGAATGGGTAAATTAGGAGTGGGAAGGTATGAGGAAGTTGACCTTAAGAACAAAGAACA
AGGAAGTTAACTTTGAAGAGAAACCCATCATACCTAACAGTCTTGTAAGAAAGGATGACAAAGTGATTGAACAT
TGGGTGGAGCTAATTTTCTTGGCCAATTCACCTTAGTAAGATAAGGAGCTCCAAATCATATTTAAGTTGGGAGTC
AATTGATTTTACTTAATTCTTGTGAGGTTTCACTTAGTAAGATTATCATATACTACTACCATGAGCCATCCTCAGCTC
CTTGTTACATGGGCCTGTAAACATGGCAGCTTTGTCTATAAGCAAACCCAGGAGAGAAAGACATAGCAGAGATGG
ATGTTTGAAGTCTATACCTTCCACCCCTTTAAAGAGAAAGTAACACCACTCCTTTTCTGTGTCCCTTGGGGACA
CTACCTCCATGTCTGGTCACATGGCTGGACTTTACAGCAGATAAGCATACTGTGGCCTGAGACCATGATTGTATG
CTTTCCTTCTGCTGACCTTTACAATCCCTCAATAAATTGAGCTAACACAGGGAAGCTTTTTTACCATAAATACTGT
GTTGCATCATCCTCCAGTTTGCCTGGTGTCTTAATCAATGGAAGGGGAATAAGCAAAGTGAAGTTTCTTACACC
TTTTGAGTATAGTGTTTTTGCCATCATAGATGTGGCTCCTCATAATTCTCCAACTTTTATATTAATAAACCACAAA
CCTCAAAAATTGTAGTTCATGTCAAGTCAGTGATGACTCATCTTAGAAGTATTTTGTTTTTGGATGTGTGAATGTG
CATAGTTCCTAAAGTCCAACATTTCATGTAATAAGACATCTTGATATAACAATGACCCTTACGTCTAAGATGTGA
AATAGATCCTAAGCCTGGTATAACTTTATTCAAGTATCCTTATTTGCCCTAAAATGTCTTAATACACATTACT
TGGGTATTTCTTGAATGAACATACAGGTATCCCAATTTCTGTTTTTAAGAGAATGGGGTCTTGCTCTGTCACCC
AGGCTGGAGTGCAGTGGTGCAGTCATGGCTTACTGCATCCATGATCCTCCTGCCTCAGCCTCCCAAGTAGATGGG
ACTGAAAGCACACACTGCCATCCCTGGCTAATGTTTTTCATATTTTGTAGAGTTGCAGCCTTGCTACGTGACCCAG
GCTGGAGTGTAGTAGCTATTCACAGGCATGATTGCTTGAAACTCATGGCTTCAAGGGAAACTCCCAACCTCAATA
TCCTCAGTAGCTGCAACTACAGCCATACCCCCACTGCTCAGCTTCTCATCCTTTAAAGATTTTTACTGGTAGT
GTCCTCATCTGGGTTTTTGTCTTCTGTGTTTACTGTGACATGAAGTCATTTTATAGATGAAGGTAAACATTTTG
CCAACGCAGGTACAATATGGGATTCAATAAAAGTACAGAATTAAAGTTGTCTTATTAGAGATTGGGAAGTTTCCC
AGCTCCGTTTTATCGGTACTTGGCCGTACCGATAAAGGGGATGGACTTGGAGTGACCAGGTCTTAGTCACATGTAT
TTTCATACCCTAAACAAGAAGCGGTATAGACCAGAATGGAGCACTGATTGTAATCCACCTTCTTTCTTAGAACT
GGCGATGGAATATGAGAGGAGCCCTCTGGAAGAAAAGGACAGACCCTGTGCTTTCATGAAAGTGAAGATCTGGC
TGAACCAGTTCCACAAGGTTACTGTATACATAGCCTGAGTTTAAAGGCTGTGCCCCTTCAAGAATGTCATTGT
TAGACTTTGAAATTTCTAACTGCCTACCTGCATAAAGAAAATAAAATCTTTTAAATC

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FIGURE 5801

MISKRFLSKADLLLQNGAACTPGHSESTPNKGGEVVFIPNTASSCFCVLSPLARVQSKLVLIGYFKQEGCGLQQW
EEQLPRARETFPDKEQMRVTGWDWWEKCLQNG

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FIGURE 5802

GGCACGGCCTAGCGAGTGGTTCTTCTGCGCTACTGCTGCGCGAATCGGCGACCCCAGTGCCTCGACCACTATGCC
GCGCTCTTTCTCTCGTCAGGAAGCCCTCCGACCCCAATCGGAAGCCTAACTACAGCGAGCTGCAGGACTCTAATCC
AGAGTTTACCTTCCAGCAGCCCTACGACCAGGCCACCTGCTGGCAGCCATCCCACCTCCGGAGATCCTCAACCC
CACCGCTCGCTGCCAATGCTCATCTGGGACTCTGTCTGGCGCCCCAAGCCCAGCCAATTGCCTGGGCTCCCT
TCGGCTCCAGGAGAGTCCCAGGGTGGCAGAGCTGACCTCCCTGTCAGATGAGGACAGTGGGAAAGGCTCCCAGCC
CCCCAGCCCACCTCACC GGCTCCTTTCGTCTTCTCCTCTACTTCAGTCTCTTCTTGGAGGCCGAGGCCTATGC
TGCCTTCCCAGGCTTGGGCCAAGTGCCCAAGCAGCTGGCCCAGCTCTCTGAGGCCAAGGATCTCCAGGCTCGAAA
GGCCTTCAACTGCAAATACTGCAACAAGGAATACCTCAGCCTGGGTGCCCTCAAGATGCACATCCGAAGCCACAC
GCTGCCCTGCGTCTGCGGAACCTGCGGGAAGGCCTTCTCTAGGCCCTGGCTGCTACAAGGCCATGTCCGGACCCA
CACTGGCGAGAAGCCCTTCTCCTGTCCCCACTGCAGCCGTGCCCTTCGCTGACCGCTCCAACCTGCGGGCCACCT
CCAGACCCACTCAGATGTCAAGAAGTACCAGTGCCAGGCGTGTGCTCGGACCTTCTCCCGAATGTCCCTGCTCCA
CAAGCACCAAGAGTCCGGCTGCTCAGGATGTCCCCGCTGACCCCTCGAGGCTCCCTCTTCTCTCCATACCTGCCC
CTGCCTGACAGCCTTCCCCAGCTCCAGCAGGAAGGACCCACATCCTTCTCACTGCCATGGAATTCCCTCCTGAG
TGCCCCACTTCTGGCCACATCAGCCCCACAGGACTTTGATGAAGACCATTTCTGGTTCTGTGTCTCTGCCTGG
GCTCTGGAAGAGGCCTTCCCATGGCCATTTCTGTGGAGGGAGGGCAGCTGGCCCCCAGCCCTGGGGGATTCTGA
GCTGGCCTGTCTGCGTGGGTTTTGTATCCAGAGCTGTTTGATACAGCTGCTTTGAGCTACAGGACAAAGGCTG
ACAGACTCACTGGGAAGCTCCCACCCCACTCAGGGGACCCCACTCCCTCACACACACCCCCCACAAGGAACCC
TCAGGCCACCTCCACGAGGTGTGACTAATAATGCAATAATCCACCCCAAGGTGCAGCCCCAGGGCCTGCGGAGG
CGGTGGCAGACTAGAGTCTGAGATGCCCCGAGCCCAGGCAGCTATTTAGCCTCCTGTTTGGTGGGGTGGCACCT
GTTTCCCGGGCAATTTAACAATGTCTGAAAAGGGACTGTGAGTAATGGCTGTCACTTGTCGGGGGCCCAAGTGGG
GTGCTCTGGTCTGACCGATGTGTCTCCAGAATAATTCTGGGGGCCGACAGGTGGGCCTGGGAGGAAGATGTTT
ACATTTTAAAGGTACACTGGTATTTATATTTCAAACATTTTGTATCAAGGAAACGTTTGTATAGTTATATGTA
CAGTTTATTGATATTCAATAAAGCAGTTAATTTATATATTA

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FIGURE 5803

MPRSFLVRKPSDPNRKPNYSELQDSNPEFTFQQPYDQAHLLAAIPPEILNPTASLPMLIWDSVLAPQAQPIAWA
SLRLQESPRVAELTSLSDEDSGKGSQPPSPSPAPSSFSSTSVSSLEAEYAAFPGLGQVPKQLAQLSEAKDLQA
RKAFNCKYCNKEYLSLGALKMHIRSHTLPCVCGTCGKAFSRPWLLQGHVRTHTGEKPFSCPHCSRAFAADRNLRA
HLQTHSDVKKYQCQACARTFSRMSLLHKKHQESGCSGCPR

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FIGURE 5804

TTACACGGCAGGACTTCATCGAGACCAACGGGGACAACCTGCCTGGTGACACTGCTGCCGCTGCTAAACATGGCC
TACAAGTTCGCGACCCACAGCCCTGAAGCCCTGGAGCAGCTATACCCCTGGGAGTGCTTCGTCTTCTGCCTGATC
ATCTTCGGCACCTTACCAACCAGATCCACAAGTGGTCGCACACGTACTTTGGGCTGCCACGCTGGGTACCCCTC
CTGCAGGACTGGCATGTCATCCTGCCACGTAAACACCATCGCATCCACCACGTCTCACCCACGAGACCTACTTC
TGCATCACCACAGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTA
GGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAAGATGGACAGGGATGATAATT
GGGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGGACCTAAATACCCAGAAGCA
CCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGA
GCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCCTGCAAGAGCTTCGGCGCCTAATG
ATGTCTAAAGAAAATATGAAACTCCCTCAGCCGCCCCGAAAGACAGTGTTACAGCAATTAAATCAAAAAGAAAAACC
ACAGGCCCTTCCCCTTCCCCCAATTGATTTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGATACGT
CTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGATACT
AATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAACCACTGTCCACGTA
GTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATACTGGTGGGGCACATCTAACTCAACT
GTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCTTTACCCCTC
CCGCTCCCACCCCTCCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTTAGAGTAGATGTGAAGGTTTCAGGT
CGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTCGCCTGCACCCCTGGTTCCCTTTAAGTCTTAAGTGAT
GCCCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAACCCCT
CCTACTCCCCCTCTGAGATTGGCTTCGGTGAGGAATTCAGGGCTTTCCCCATATCTTCTCTCCCCCACCTTTATCG
AGGGGTGCTGCTTTTTTCTCCCTCCTCCTCAAGTTCCTTTTTGCACCGTCACCACCCAACACCTTCCATGACACTT
CCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAACCATA
CTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCTCAGCCCTGCCACCCCTCTGCTGTGTCATCAGCTGA
TGCATTGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAATAGTCACCAGGGTTACTCAGACCTGCCAGCTCTCG
GAGTCCCTTGGTGGTTGAACTTGGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAATTGTT
TTACTTTCTGTAACTGCTTTTTGCTTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTCATTTGGTCATCCTTGC
AATCCATTGGGGTCTAGTTTGAATCTGACAACCTGGAACAAAAAGAACCTTGAATCCGGTGCATGCCTTGGTTTT
GGTGCTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAGAAGGAACCCGGTGTGCACAGCAGATCCCCGAAAT
TGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTCCACTTGCTGTTTCAGGACCACTAAATGCTGAAATGTGG
ATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTTAAATTTAGTATTTGTGTAA
ACCACCTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTCCATTAATCTTTTTCTGGGGGGAAAA
CCTTAGTTCTAAGGATTTAACATCCTGTAAGTGAAGTTTAACATAACAGTATTCCATAAGCAGCCTTTTTATTGT
CAGACCATTGCCTGATTTTAAATATAATAAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5805

MAYKFRTHSPEALEQLYPWECFVFCIIIFGTFTNQIHKWSHTYFGLPRWVTLLQDWHVILPRKHHRIHHVSPHET
YFCITTGVKVPNRNFRLLLEELEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTIYENRIYSLKIECGPKYP
EAPPFVRFVTKINMNGVNSSNGVVDPRASVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPFEGQCYSN

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FIGURE 5806

ATGCCAGGAGAGGTTCAAGCGTCTTACCTGAAGTCACAAAGCAAACCTGAGTGAATGAAGGAAGACTTGAACCTAGA
AAATTTCACTGCAAAGACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGGACCTAAATACCCAGA
AGCACCCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCC
AAGAGCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCCTGCAAGAGCTTCGGCGCCT
AATGATGTCTAAAGAAAAATATGAAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAATTAATCAAAAAGAAA
AACCACAGGCCCTTCCCCCTTCCCCCAATTCGATTTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGAT
ACGTCTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGA
TACTAATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAAACACTGTCCA
CGTAGTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGCACATCTAACTC
AACTGTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCCTTAC
CCTCCCGCCTCCCACCTCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTAGAGTAGATGTGAAGGCTTC
AGGTCGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTCGCTGCACCCCTGGTTTCTTTAAGTCTTAAG
TGATGCCCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAAC
CCCTCCACTCCCCTCTGAGATTGGCCTTCGGTGAGGAATTCAGGGCTTTCCCCATATCTTCTCTCCCCACCTTT
ATCGAGGGGTGCTGCTTTTTCTCCCTCCTCCTCAAGTTCTTTTTTGACCGTCACCACCCAACACCTTCCATGAC
ACTTCCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAAC
CATACTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCCTCAGCCCTGCCACCTCTGCTGTCACTAG
CTGATGCATTGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAATAGTCACCAGGGTTACTCAGACCTGCCAGCT
CTCGGAGTCCTTGGTGGTTGAACTTGGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAAT
TGTTTTACTTTCTGTAACTGCTTTTGCTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTCATTTGGTCAATCC
TTGCAATCCATTGGGGGTCTAGTTTGGAATCTGACAACTGGAACAAAAAGAACCTTGAACCCGGTGCATGCCCTTG
GTTTTGGTGTCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCC
GAAATTGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTCCACTTGCTGTTTCCAGGACCACTAAATGCTGAAA
TGTGGATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTTTTAATTTAGTATTTGT
GTAAAACCACTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTTCCATTAATCTTTTTCTGGGGG
GAAAACCTTAGTTCTAAGGATTTAACATCCTGTAAGTGAAGTTTAACATAACAGTATTCCATAAGCAGCCTTTTT
ATTGTCAGACCATTGCCTGATTTTAATATAATAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5807

MKEDLNLENFTAKTIYENRIYSLKIECGPKYPEAPPFVRFVTKINMNGVNSSNGVVDPR AISVLAKWQNSYSIKV
VLQELRRLMMSKENMKLPQPPEGQCYSN

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FIGURE 5808

ATGCAACGCCTGGTGGCCTGGGACCCAGCATGTCTCCCCCTGCCGCCGCCGCCGCTGCCTTTAAATCCATGGAA
GTGGCCAACCTTCTACTACGAGGCGGACTGCTTGGCTGCTGCGTACGGCGGCAAGGCGGCCCCGCGGCGCCCCC
GCGGCCAGACCCGGGCGCGCCCCCGCGGCGAGCTGGGCAGCATCGGCGACCACGAGCGCGCCATCGACTTC
AGCCCGTACCTGGAGCCGCTGGGCGCGCCGAGGCCCCGGCGCCCCGCCACGGCCACGGACACCTTCGAGGCGGCT
CCGCCCCGCGCCCGCCCCGCGCCCGCCTCCTCCGGGCAGCACCACGACTTCCTCTCCGACCTCTTCTCCGACGAC
TACGGGGGCAAGAACTGCAAGAAGCCGGCCGAGTACGGCTACGTGAGCCTGGGGCGCCTGGGGGCTGCCAAGGGC
GCGCTGCACCCCGGCTGCTTCGCGCCCCTGCACCCACCGCCCCCGCCGCCGCCGCCGCCGCCGCGGAGCTCAAGGCG
GAGCCGGGCTTCGAGCCCGCGGACTGCAAGCGGAAGGAGGAGGCCGGGGCGCCGGGCGGCGCGCAGGCATGGCG
GCGGGCTTCCCGTACGCGCTGCGCGCTTACCTCGGCTACCAGGCGGTGCCGAGCGGCAGCAGCGGGAGCCTCTCC
ACGTCTCTCTCGTCCAGCCCGCCCGGCACGCCGAGCCCCGCTGACGCCAAGGCCCCCCCCGACCGCTGCTACGCG
GGGGCCGGGCGGCGCCCTCGCAGGTCAAGAGCAAGGCCAAGAAGACCGTGGACAAGCACAGCGACGAGTACAAG
ATCCGGCGCGAGCGCAACAACATCGCCGTGCGCAAGAGCCGCGACAAGGCCAAGATGCGCAACCTGGAGACGCAG
CACAAGGTCTTGGAGCTACGGCCGAGAACGAGCGGCTGCAGAAGAAGGTGGAGCAGCTGTGCGCGGAGCTCAGC
ACCTTGCAGAACTTGTTCAAGCAGCTGCCCGAGCCCCCTGCTCGCCTCCTCCGGCCACTGCTAG

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FIGURE 5809

GTGATGCGTAGTTCCGGCTGCCGGTTGACATGAAGAAGCAGCAGCGGCTAGGGCGGCGGTAGCTGCAGGGGTCCG
GGATTGCAGCGGGCTCGGGGCTAAGAGCGCGACGCGGCCTAGAGCGGCAGACGGCGCAGTGGGCCGAGAAGGAG
GCGCAGCAGCCGCCCTGCCCCGT**CATCG**GAGATGGAAAAGGAGTTTCGAGCAGATCGACAAGTCCGGGAGCTGGGCG
GCCATTTACCAGGATATCCGACATGAAGCCAGTGACTTCCCATGTAGAGTGGCCAAGCTTCCTAAGAACAAAAAC
CGAAATAGGTACAGAGACGTCAGTCCCTTTGACCATAGTCGGATTAACTACATCAAGAAGATAATGACTATATC
AACGCTAGTTTGATAAAAAATGGAAGAAGCCCCAAAGGAGTTACATTCTTACCCAGGGGCCCTTTGCCTAACACATGC
GGTCACTTTTGGGAGATGGTGTGGGAGCAGAAAAGCAGGGGTGTGCTCATGCTCAACAGAGTGATGGAGAAAGGT
TCGTTAAAAATGCGCACAATACTGGCCACAAAAGAAGAAAAGAGATGATCTTTGAAGACACAAATTTGAAATTA
ACATTGATCTCTGAAGATATCAAGTCATATTATACAGTGCAGACAGCTAGAATTGGAACCTTACAACCCAAGAA
ACTCGAGAGATCTTACATTTCCACTATACCACATGGCCTGACTTTGGAGTCCCTGAATCACCAGCCTCATTCTTG
AACTTTCTTTTCAAAGTCCGAGAGTCAGGGTCACTCAGCCCGGAGCAGCGGGCCCGTTGTGGTGCATGCACTGCA
GGCATCGGCAGGTCTGGAACCTTCTGTCTGGCTGATACCTGCCTCTTGCTGATGGACAAGAGGAAAGACCCCTTCT
TCCGTTGATATCAAGAAAGTGCTGTTAGAAATGAGGAAGTTTCGGATGGGGCTGATCCAGACAGCCGACCAGCTG
CGCTTCTCTACCTGGCTGTGATCGAAGGTGCCAAATTCATCATGGGGGACTCTTCCGTGCAGGATCAGTGGAAG
GAGCTTTCCACGAGGACCTGGAGCCCCACCCGAGCATATCCCCCACCTCCCCGGCCACCCAAACGAATCCTG
GAGCCACACAATGGGAAATGCAGGGAGTTCTTCCCAAATCACCAGTGGGTGAAGGAAGAGACCCAGGAGGATAAA
GACTGCCCCATCAAGGAAGAAAAAGGAAGCCCCCTTAAATGCCGCACCCCTACGGCATCGAAAGCATGAGTCAAGAC
ACTGAAGTTAGAAGTCGGGTCTGTGGGGGAAGTCTTCGAGGTGCCAGGCTGCCTCCCCAGCCAAAGGGGAGCCG
TCACTGCCCGAGAAGGACGAGGACCATGCACTGAGTTACTGGAAGCCCTTCTTGGTCAACATGTGCGTGGCTACG
GTCCTCACGGCCGGCGCTTACCTCTGCTACAGGTTCTTGTTCACAGCAACACAT**AGC**CTGACCCCTCCTCCACTC
CACCTCCACCCACTGTCCGCTCTGCCCGCAGAGCCACGCCCCGACTAGCAGGCATGCCGCGGTAGGTAAGGGCC
GCCGGACCGCTAGAGAGCCGGGCCCCGACGGACGTGGTTCTGCACTAAAACCCATCTTCCCCGGATGTGTGT
CTCACCCCTCATCCTTTTACTTTTTGCCCCCTTCCACTTTGAGTACCAAATCCACAAGCCATTTTTTGGAGAGAGT
GAAAGAGAGTACCATGCTGGCGGCGCAGAGGAAGGGGCCCTACACCCGTCTTGGGGCTCGCCCCACCCAGGGCTC
CCTCCTGGAGCATCCCAGGCGGGCGGCACGCCAACAGCCCCCCCCCTTGAATCTGCAGGGAGCAACTCTCCACTCC
ATATTTATTTAAACAATTTTTTCCCCAAAGGCATCCATAGTGCATAGCATTCTTGAACCAATAATGTATTAA
AATTTTTTGATGTGAGCCTTGATCAAGGGCTTTATCAAAAAGTACAATAATAAATCCTCAGGTAGTACTGGGAA
TGGAAGGCTTTGCCATGGGCTGCTGCGTCAGACCATGGAAGGAGGACGGTTGTAAGCAGTTGTTATTTA
GTGATATTGTGGGTAACGTGAGAAGATAGAACAATGTCTATAATATAATGAACACGTGGGTATTTAATAAGAAA
CATGATGTGAGATTACTTTGTCCCGCTTATTCTCCTCCCTGTTATCTGCTAGATCTAGTTCTCAATCACTGCTCC
CCCGTGTGTATTAGAATGCATGTAAGGTCTTCTTGTGTCTGATGAAAAATATGTGCTTGAAATGAGAACTTTG
ATCTCTGCTTACTAATGTGCCCCATGTCCAAGTCCAACCTGCCTGTGCATGACCTGATCATTACATGGCTGTGGT
TCCTAAGCCTGTTGCTGAAGTCATTGTGCTCAGCAATAGGGTGCAGTTTTCCAGGAATAGGCATTTGCCTAATT
CCTGGCATGACACTCTAGTGACTTCTGCTGAGGCCAGCCTGTCTGCTGATACAGCAGGGTCTTGTGTAACCTCAG
ACATTCCAAGGGTATGGGAAGCCATATTACACCTCACGCTCTGGACATGATTTAGGGAAGCAGGGACACCCCCC
GCCCCCACCTTTGGGATCAGCCTCCGCCATTCCAAGTCAACACTCTTCTTGAGCAGACCGTGATTTGGAAGAGA
GGCACCTGCTGGAACACACACTTCTTGAAACAGCCTGGGTGACGGTCCCTTTAGGCAGCCTGCCGCGTCTCTGTC
CCGGTTACCTTGCCGAGAGAGGCGCGTCTGCCCCACCCTCAAACCCTGTGGGGCTGATGGTGTCTACGACTCT
TCCTGCAAAGGGAACCTGAAGACCTCCACATTAAGTGGCTTTTTAACATGAAAAACACGGCAGCTGTAGTCCCGA
GCTACTCTCTTGCCAGCATTTTACATTTTGCCTTTCTCGTGGTAGAAGCCAGTACAGAGAAATCTGTGTTGGG
AACATTCGAGGTGTACCCCTGCAGAGCTATGGTGAGGTGTGGATAAGGCTTAGGTGCCAGGCTGAAGCATCTG
AGCTGGGCTTGTGTTTTTAAGTCTGTATATGTATGTAGTAGTTTGGGTGTGTATATATAGTAGCATTTCAAAA
TGGACGTACTGGTTTAACCTCCTATCCTTGGAGAGCAGCTGGCTCTCCACCTTGTACACATTATGTTAGAGAGG
TAGCGAGCTGCTCTGCTATATGCCTTAAGCCAATATTTACTCATCAGGTCATTATTTTTTACAATGGCCATGGA
TAAACCATTTTTTACAAA

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FIGURE 5810

MEMEKEFEQIDKSGSWAAIYQDIRHEADFPCRVAKLPKNKNRNRDVSFPDHSRIKLHQEDNDYINASLIKME
EAQRSYILTQGPLPNTCGHFWEMVWEQKSRGVVMLNRVMEKGSCLKAQYWPQKEEKEMIFEDTNLKLTLISEDIK
SYTIVRQLELENLTTQETREILHFHYTTWPDFGVPEPASFLNFLFKVRESGSLSPHEGPPVVHCSAGIGRSGTF
CLADTCLLLMDKRKDPSSVDIKKVLLEMRRKFRMG LIQTADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLE
PPPEHIPPPPRPPKRILEPHNGKCREFFPNHQWVKEETQEDKDCPIKEEKGSPLNAAPYGIESMSQDTEVRSRVV
GGSLRGAQAASPAKGPSLPEKDEDHALSYWKPFLVNMCVATVLTAGAYLCYRFLFNSNT

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FIGURE 5811

ATGGCCTCCTTGGAAGTCAGTCGTAGTCCTCGCAGGTCTCGGCCGGGAGCTGGAAGTGCGCAGTCCACGACAGAAC
AAATATTCCGGTGCTTTTACCTACCTACAACGAGCGCGAGAACCTGCCGCTCATCGTGTGGCTGCTGGTGAAAAGC
TTCTCCGAGAGTGGAATCAACTATGAAATTATAATCATAGATGATGGAAGCCCAGATGGAACAAGGGATGTTGCT
GAACAGTTGGAGAAGATCTATGGGTCAGACAGAATTCTTCTAAGACCACGAGAGAAAAAGTTGGGACTAGGAACT
GCATATATTCATGGAATGAAACATGCCACAGGAACTACATCATTATTATGGATGCTGATCTCTCACACCATCCA
AAATTTATTCCTGAATTTATTAGGAAGCAAAAGGAGGGTAATTTTGATATTGTCTCTGGAACCTCGCTACAAAGGA
AATGGAGGTGTATATGGCTGGGATTTGAAAAGAAAAATAATCAGCCGTGGGGCCAATTTTTTAACTCAGATCTTG
CTGAGACCAGGAGCATCTGATTTAACAGGAAGTTTCAGATTATACCGAAAAGAAGTTCTAGAGAAATTAATAGAA
AAATGTGTTTCTAAAGGCTACGTCTTCCAGATGGAGATGATTGTTCCGGGCAAGACAGTTGAATTATACTATTGGC
GAGGTTCCAATATCATTGTGGATCGTGTATTATGGTGAATCCAAGTTGGGAGGAAATGAAATAGTATCTTTCTTG
AAAGGATTATTGACTCTTTTTGCTACTACATTAAAAGAAAGATACTCATTTATAGTTACGTTTCAATTCAGGTTAAA
CATGAAAGAAGCCTGGTTACTGATTTGTATAAAATGTACTCTTAAAGTATAAAATATAAGGTAAGGTAAATTTCA
TGCATCTTTTTATGAAGACCACCTATTTTATATTTCAAATTAAATAATTTTAAAGTTGCTGGCCTAATGAGCAAT
GTTCTCAATTTTCGTTTTTCATTTTGCTGTATTGAGACCTATAAATAAATGTATATTTTTTTTTTGCATAAAGT

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FIGURE 5812

MASLEVSRSRPRSRELEVRSPRQNKYSVLLPTYNERENLPLIVWLLVKSFSSEGINYEIIIIIDDGSPDGTRDVA
EQLEKIYGSDRILLRPREKKLGLGTAYIHGMKHATGNYIIIMDADLSHHPKFIPEFIRKQKEGNFDIVSGTRYKG
NGGVYGWDLKRKIIISRGANFLTQILLRPGASDLTGSRFLYRKEVLEKLEKCVSKGYVFQMEMIVRARQLNYTIG
EVPISFVDRVYGESKLGNEIVSFLKGLLTLFATT

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FIGURE 5813

GGAAGACTTGGGTCCCTTGGGTGCGCAGGTGGGAGCCGACGGGTGGGTAGACCGTGGGGGATATCTCAGTGGCGGAC
GAGGACGGCGGGGACAAGGGGCGGCTGGTCGGAGTGGCGGAGCGTCAAGTCCCCTGTGCGTTCCCTCCGTCCCTGA
GTGTCCTTGGCGCTGCCTTGTGCCCCGCCAGCGCCTTTGCATCCGCTCCTGGGCACCGAGGCGCCCTGTAGGATA
CTGCTTGTTACTTATTACAGCTAGAGGGTCTCACTCCATTGCCAGGCCAGAGTGCGGGGATATTTGATAAGAAA
CTTCAGTGAAGGCCGGGCGCGGTGGCTCATGCCCCGTAATCCAGCATTTTCGGAGGCCGAGGCATCATGGACCGA
TCTAAAGAAAAGTGCATTTACAGGACCTGTTAAGGCTACAGCTCCAGTTGGAGGTCCAAAACGTGTTCTCGTGACT
CAGCAATTTCCCTTGTGAGAATCCATTACCTGTAAATAGTGGCCAGGCTCAGCGGGTCTTGTGTCTTCAAATTCT
TCCCAGCGCATTCCTTTGCAAGCACAAAAGCTTGTCTCCAGTCACAAGCCGGTTTCAGAATCAGAAGCAGAAGCAA
TTGCAGGCAACCAGTGTACCTCATCCTGTCTCCAGGCCACTGAATAACACCCAAAAGAGCAAGCAGCCCCCTGCCA
TCGGCACCTGAAAATAATCCTGAGGAGGAACTGGCATCAAAACAGAAAAATGAAGAATCAAAAAAGAGGCAGTGG
GCTTTGGAAGACTTTGAAATTGGTCGCCCTCTGGGTAAAGGAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAG
CAAAGCAAGTTTATTTCTGGCTCTTAAAGTGTTATTTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTC
AGAAGAGAAGTAGAAAATACAGTCCCACCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTCCATGATGCT
ACCAGAGTCTACCTAATTCTGGAATATGCACCACTTGGAACAGTTTATAGAGAACTTCAGAACTTTCAAAGTTT
GATGAGCAGAGAACTGCTACTTATATAACAGAATTGGCAAATGCCCTGTCTTACTGTCAATTCGAAGAGAGTTATT
CATAGAGACATTAAGCCAGAGAACTTACTTCTTGGATCAGCTGGAGAGCTTAAAATTGCAGATTTTGGGTGGTCA
GTACATGCTCCATCTTCCAGGAGGACCACTCTCTGTGGCACCCTGGACTACCTGCCCCCTGAAATGATTGAAGGT
CGGATGCATGATGAGAAGGTGGATCTCTGGAGCCTTGGAGTTCTTTGCTATGAATTTTGTGTTGGGAAGCCTCCT
TTTGAGGCAAACACATACCAAGAGACCTACAAAAGAATATCACGGGTTGAATTCACATTCCTGACTTTGTAAACA
GAGGGAGCCAGGGACCTCATTTCAAGACTGTTGAAGCATAATCCAGCCAGAGGCCAATGCTCAGAGAAAGTACTT
GAACACCCCTGGATCACAGCAAATTCATCAAAACCATCAAATTGCCAAAACAAAGAATCAGCTAGCAAACAGTCT
TAGGAATCGTGAGGGGGGAGAAATCCTTGAGCCAGGGCTGCCATATAACCTGACAGGAACATGCTACTGAAGTTT
ATTTTACCATTGACTGCTGCCCTCAATCTAGAACGCTACACAAGAAATATTTGTTTTACTCAGCAGGTGTGCCTT
AACCCTCCTATTTCAGAAAGCTCCACATCAATAAACATGACACTCTGAAGTGAAAGTAGCCACGAGAATTGTGCTA
CTTATACTGGTTTATAATCTGGAGGCAAGGTTTCGACTGCAGCCGCCCGTCAGCCTGTGCTAGGCATGGTGTCTT
CACAGGAGGCAAAATCCAGAGCCTGGCTGTGGGGAAAGTGACCACTTGCCCTGACCCCGATCAGTTAAGGAGCTG
TGCAATAACCTTCCTAGTACCTGAGTGAGTGTAAGTTATTGGGTTGGCGAAGCCTGGTAAAGCTGTTGGAATG
AGTATGTGATTCTTTTTTAAGTATGAAAATAAAGATATATGTACAGACTTGATTTTTTCTCTGGTGGCATTCTCT
TAGGAATGCTGTGTGTCTGTCCGGCACCCCGGTAGGCCTGATTGGGTTTCTAGTCCTCCTTAACCACTTATCTCC
CATATGAGAGTGTGAAAAATAGGAACACGTGCTCTACCTCCATTTAGGGATTTGCTTGGGATACAGAAGAGGCCA
TGTGTCTCAGAGCTGTTAAGGGCTTATTTTTTTTAAACATTGGAGTCATAGCATGTGTGTAAACTTTAAATATGC
AAATAAATAAGTATCTATGTCT

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FIGURE 5814

AGAGGAGTGGGACCGATCGATAGCGCAGCGGTGCGTTGGCGCCCTTTTTCAGCGTGCGCAGTGAACGTGCGCTCGGA
GCGGTAGATTGGGCAGGATTCGCGCCTCCATTTTTTCCAGGAGAGAGCGGGATACCAAGAGAACCGGACCAGCTGC
TGGCAGGGAAACTGTCTTCCTTTTCTCCAAGATGTACAGAACCAAAGTGGGCTTGAAGGACCGCCAGCAGCTCTA
CAAGCTGATCATTAGCCAGCTGCTATATGACGGCTACATCAGCATCGCCAATGGCCTCATCAATGAAATCAAGCC
TCAGTCTGTGTGTGCACCCCTCGGAGCAGCTCCTGCATCTCATCAAACCTCGGAATGGAAAACGATGACACCGCAGT
TCAGTATGCAATTGGTTCGTTTCTGATACTGTTGCCCTGGCACAGGGATTGACCTGGAATTTGATGCAGATGTTCA
GACTATGTCCCAGAGGCTTCTGAGTACGAAACATGCTATGTACATCACATAAAGGACCATGCCGTGTAGCTAC
CTATAGTAGAGATGGACAGTTAATAGCTACTGGGTCTGCTGATGCTTCGATAAAGATACTTGACACAGAGAGGAT
GTTGGCCAAAAGTGCCATGCCAATAGAGGTGATGATGAATGAGACCGCACAAACAAAATATGGAAAACCAACCCAGT
GATTCGAACTCTTTATGACCATGTGGATGAAGTCACGTGCCTTGCTTTCCACCCAACAGAACAGATCCTGGCTTC
TGGTTCAAGGGATTATACTCTTAAATTATTTGATTATTCCAAACCATCAGCAAAAAGAGCCTTCAAATACATTCA
GGAAGCTGAAATGTTACGTTCCATCTCTTTTCATCCTTCTGGAGACTTTTATACTTGTTCGGAACCTCAGCATCCTAC
TCTTCGCCCTTATGATATCAACACCTTTCAATGTTTTGTCTCTTGCAATCCTCAAGATCAACACACCGATGCTAT
ATGTTCCGTTAATTACAATTCTAGTGCCAATATGTACGTAACCTGGAAGCAAGGACGGCTGCATCAAATATGGGA
TGGTGTTCAAATCGATGCATCACAACCTTTTGAGAAAGCACATGACGGTGCTGAAGTTTGTCTGCCATTTTTTC
CAAAAATCTAAATACATTCTCTCAAGTGGAAAAGACTCTGTAGCTAACTTTGGGAAATATCAACGGGACGAAC
ACTGGTCAGATACACGGGCGCGGGTTTAAGTGGACGCCAGGTGCACCGGACACAGGCTGTGTTTAAACCACACCGA
GGACTATGTGTTGCTGCCCCGACGAGAGGACGATCAGTCTTTGCTGCTGGGACTCGAGGACAGCCGAGCGGAGAAA
CCTGCTGTGTTGGGGCACAACAATATTGTACGCTGCATAGTGCACCTCCCCACCAACCCCGGGTTCATGACGTG
CAGCGATGACTTCAGAGCGCGGTTTTGGTACCGGAGATCGACCACTGACTGAGCCACCCTCTCCGTAGGGTTCTT
TCTCGAGGACTCTACCCTCCTCCCCACGTCCTGTCTCAGCTGCAGTCGTAAGTCCGTGCACCATCCTTGACGTT
TTGCTGCCACCTCTGTCCACATTCTTCTTGGATTTGTATAAAAGAATCTTTTTTTACCTTGATGTAGAATCATGG
TGGAAAAAGTTGGAAACACAGATCTGTGCAGTTCTACATTCACTGATTATTACAGTGTGATTTTCATCGGTTTTG
TAAGTACAGGACTTGCCGTTTCTTTTGATCTCTTGATTGAAGGAGGATAGGGCATTAAAGTGCTTTTGACATGAG
G

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FIGURE 5815

MYRTKVGLKDRQQLYKLIISQLLYDGYISIANGLINEIKPQSVCAPSEQLLHLIKLGMENDDTAVQYAIGRSDTV
APGTGIDLEFDADVQTMSPEASEYETCYVTSHKGPCR VATYSRDGQLIATGSADASI KIL DTERMLAKSAMP IEV
MMNETAQQN MENHPVIR TLYDHVDEV TCLA FHPTEQILASGSRDYTLK LFDYSKPSAKRAFKYIQEAEMLR S I S F
HPSGDFILVGTQHPTLR LYDINTFQCFVSCNPQDQHTDAICSVNYNSSANMYVTGSKDGC I KLWDGVSNRCITTF
EKAHDGAEVCSAIFSKNSKYILSSGKDSVAKLWEISTGR TLVRYTGAGLSGRQVHRTQAVFNHTEDYVLLPDERT
ISLCCWDSRTAERRNLLSLGHNNIVRCIVHSPTNPGFMTCSDDFRARFWYRRSTD

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FIGURE 5816

GGATTTGCGCCGGAATCCCGGAAGTGACAGCTTTGGGGGTTTGCTGCTGGCTCTGACTCCCGTCTCGCATGGGT
TGCACGCGGGGAACAATCCCCAAGAGGCATGAACTGGTGAAGGGGCCGAAGAAGGTTGAGAAGGTCGACAAAGAT
GCTGAATTAGTGGCCCAATGGAATATTGTACTCTAAGTCAGGAAATATTAAGACGACCAATAGTTGCCTGTGAA
CTTGGCAGACTTTATAACAAAGATGCCGTCATTGAATTTCTCTTGACAAATCTGCAGAAAAGGCTCTTGGGAAG
GCAGCATCTCACATTAAGCATTAAGAATGTGACAGAGCTGAAGCTTTCTGATAATCCTGCCTGGGAAGGGGAT
AAAGGAAACACTAAAGGTGACAAGCACGATGACCTCCAGCGGGCGGTTTCACTCTGCCCCGTTGTGGGCCTGGAG
ATGAACGGCCGACACAGGTTCTGCTTCCTTCGGTGCTGCGGCTGTGTGTTTTCTGAGCGAGCCTTGAAAGAGATA
AAAGCGGAAGTTTGCCACACGTGTGGGGCTGCCTTCAGGAGGATGATGTCATCATGCTCAATGGCACCAAGGAG
GATGTGGACGTGCTGAAGACAAGGATGGAGGAGAGAAGGCTGAGAGCGAAGCTGGAAGAAAGAAAACAAAGAAACCC
AAGGCAGCAGAGTCTGTTTCAAACACAGATGTCAGTGAAGAAGCCCCAGGGCCATCAAAGTTAAGACAGGGAAG
CCTGAAGAAGCCAGCCTTGATTCTAGAGAGAAGAAAACCAACTTGGCTCCCAAAGCACAGCAATGAATGAGAGC
TCTTCTGGAAGCTGGGAAGCCTCCGTGTGGAGCCACAAAGAGGTCCATCGCTGACAGTGAAGAAATCGGAGGCC
TACAAGTCCCTCTTTACCACTCACAGCTCCGCCAAGCGCTCCAAGGAGGAGTCTGCCCCACTGGGTCACCCACACG
TCCTACTGCTTCTGAAGCCCGCACTGCCACCGCTCCTGCCCCAGAAGGTTGTTTAGTTTCCACGTAGGCAGGTCTG
CTTGTGCTCTGAGTGCGCTGCTGTGTGTTCTCTCTATAGTTCTGTGTCATAAAGCTGTCTTGCCAGCCTTCA
AGCTGGTGTTGGCCACTCTTGATGTGAGGCGTGTGCGTTCCAGGGGGGACATGGGAGGGGCTGCACAGTGGCCCGA
GGTCATGCTTGCTTCCACCTGCAGGTGCATTTGGTCTTTCCATGGCCAGGAAGCCCTGTGGGCTGCACTTTTTA
TGCTTGCAAGTAACAAGAGACTCCAGAGTCTTCAACGGTGCAGAGTTGGCACATATTAATTAATAAAATTCTAAT
GATCTTGCTACCAAGCAATAAATCAAGTAGGCCAAGTGAAGTGGGCTTTAAAGGATGGATTTCAAATACACTG
TGCCCCACTAGAAGCTTCGAAGGGCCTCGTCCCTCTGCTACAGCCCTGGGAGGAGCCAGGATCCTTGTGGTCTAG
CTAAATACTGTTAGGGGAGTGTGCCCCATCTCATCATTTTCAAGATAGCAGAGTCATAGTTGGGCACCCAGTGAT
TGGGTTCAAAAATAAAGCTGGTCTGCCTCTTC

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FIGURE 5817

MGCDGGTIPKRHELVKGPKKVEKVDKDAELVAQWNYCTLSQEILRRPIVACELGRLYNKDAVIEFLDKSAEKAL
GKAASHIKSIKNVTELKLSDNPAWEGDKGNTKGDKHDDLQRARFICPVVGLEMNGRHRFCFLRCCGCVFSEALK
EIKAEVCHTCGAAFQEDDVIMLNGTKEDVDVLKTRMEERRLRKLEKKTCKPKAAESVSKPDVSEEAPGPSKVKT
GKPEEASLDSREKKTNLAPKSTAMNESSSGKAGKPPCGATKRSIADSESEAYKSLFTTHSSAKRSKEESAHWVT
HTSYCF

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FIGURE 5818

CCGAGGCGGCCTCTTGTGCGATCCAGGGCGCACAAAGGCTGGGAGAGCGCCCCGGGGCCCTGCTATCCGCGCCGG
AGGTTGGAAGAGGGTGGGTTGCCGCCGCCGAGGGCGAGAGCGCCAGAGGAGCGGGAAGAAGGAGCGCTCGCCCCG
CCCCCTGCCTCCTCGCTGCCTCCCCGGCGTTGGCTCTCTGGACTCCTAGGCTTGCTGGCTGCTCCTCCCACCCG
CGCCCGCCTCCTCACTCGCCTTTTCGTTCCGCCGGGGCTGCTTTCCAAGCCCTGCGGTGCGCCCGGGCGAGTGCGG
GGCGAGGGGGCCCGGGGCCAGCACCGAGCAGGGGGCGGGGTCCGGGCAGAGCGCGGCCGGCCGGGGAGGGGCCAT
GTCTGGCGCGGGCGCAGCGGGGCCGTCTGCAGCAAGTGACCGAGCGGGCGGGACGGCCGCTGCCCTCTGCGC
ACCTGGGGCGGTGCGGGCCCGAGCCCGGAGCCCGGTAGCGCGTAGAGCCGGCGCGATGCACGTGCGCTCACTG
CGAGCTGCGGGCGCCGACAGCTTCGTGGCGCTCTGGGCACCCCTGTTCTGCTGCGCTCCGCCCTGGCCGACTTC
AGCCTGGACAACGAGGTGCACTCGAGCTTCATCCACCGGCGCTCCGCAGCCAGGAGCGGGCGGGAGATGCAGCGC
GAGATCCTCTCCATTTTGGGCTTGCCCCACCGCCCGCGCCCGCACCTCCAGGGCAAGCACAACTCGGCACCCATG
TTCATGCTGGACCTGTACAACGCCATGGCGGTGGAGGAGGGCGGGCGGGCCCGGGCGCCAGGGCTTCTCCTACCCC
TACAAGGCCGTCTTCAGTACCCAGGGCCCCCTCTGGCCAGCCTGCAAGATAGCCATTTCTCACCAGCGCCGAC
ATGGTCATGAGCTTCGTCAACCTCGTGAACATGACAAGGAATTCTTCCACCCACGCTACCACCATCGAGAGTTC
CGGTTTGATCTTTCCAAGATCCCAGAAGGGGAAGCTGTACGGCAGCCGAATTCCGGATCTACAAGGACTACATC
CGGGAACGCTTCGACAATGAGACGTTCCGGATCAGCGTTTATCAGGTGCTCCAGGAGCACTTGGGCAGGGAATCG
GATCTCTTCTGCTCGACAGCCGTACCTCTGGGCCCTCGGAGGAGGGCTGGCTGGTGTGTTGACATCACAGCCACC
AGCAACCACTGGGTGGTCAATCCGCGGCACAACCTGGGCCTGCAGCTCTCGGTGGAGACGCTGGATGGGCAGAGC
ATCAACCCCAAGTTGGCGGGCCTGATTGGGCGGCACGGGCCCCAGAACAAGCAGCCCTTCATGGTGGCTTTCTTC
AAGGCCACGGAGGTCCACTTCCGCAGCATCCGGTCCACGGGGAGCAAACAGCGCAGCCAGAACCCTCCAAGACG
CCCAAGAACCAGGAAGCCCTGCGGATGGCCAACGTGGCAGAGAACAGCAGCAGCGACCAGAGGCAGGCCTGTAAG
AAGCACGAGCTGTATGTCAGCTTCCGAGACCTGGGCTGGCAGGACTGGATCATCGCGCCTGAAGGCTACGCCGCC
TACTACTGTGAGGGGGAGTGTGCCTTCCCTCTGAATCCTACATGAACGCCACCAACCACGCCATCGTGCAGACG
CTGGTCCACTTCATCAACCCGGAACGGTGCCCAAGCCCTGCTGTGCGCCACGCAGCTCAATGCCATCTCCGTC
CTCTACTTCGATGACAGCTCCAACGTCATCCTGAAGAAATACAGAAACATGGTGGTCCGGGCCTGTGGCTGCCAC
TAGCTCCTCCGAGAATTAGACCCCTTTGGGGCCAAGTTTTCTGGATCCTCCATTGCTCGCCTTGGCCAGGAACC
AGCAGACCAACTGCCTTTTGTGAGACCTTCCCTCCCTATCCCCAACTTTAAAGGTGTGAGAGTATTAGGAAACA
TGAGCAGCATATGGCTTTTGATCAGTTTTTTCAGTGGCAGCATCCAATGAACAAGATCCTACAAGCTGTGCAGGCA
AAACCTAGCAGGAAAAAAAACAACGCATAAAGAAAAATGGCCGGGCCAGGTCATTGGCTGGGAAGTCTCAGCCA
TGCACGGACTCGTTTCCAGAGGTAATTATGAGCGCTACCAGCCAGGCCACCCAGCCGTGGGAGGAAGGGGGCGT
GGCAAGGGGTGGGCACATTGGTGTCTGTGCGAAAGGAAAAATTGACCCGGAAGTTCTGTAAATAAATGTCACAATA
AAACGAATGAATG

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FIGURE 5819

AGCCACTGCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGTACGGGCACTGGGCGACTCT
GTGCCTCGCTGAAGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGCCGAGAGGCAAAATGTCATCATA
TGCATTTTTTGTGCAAACCTTGTCGGGAGGAGCATAAGAAGAAGCACTCAGATGCTTCAGTCAACTTCTCAGAGTT
TTCTAACAAGTGCCCATTTATGAAAGACAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCA
AGGATCCCAATGCACCCAAGAGGCCTCCTTCGGCCTTCTTCCTGTTCTGCTCTGAGTATCACCCAAAAATCAAAG
GAGAACATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCTGCAGATG
ACAAGCAGCCTGGTGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCAAGCTA
AAGGAAAGCCTGAGGCAGCAAAAAAGGGAGTTGTCAAAGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAG
ATGAGGAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGAAGATGATGATGAATAAGTTGGCT
CTAGCGCAGTTTTTTTTTCTTGTCTTAAAGCATTAAACGCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAAAT
TGAAATGTAAGGCTGTGTAAGATTTGTTTTTAACTGTACAGTGTCGTTTTTTGTATGGTTAATACTACCAAA
TGTGTCTTTAGATGGCCCTGTCTGGTGGTATTTTCAATAGTCACTAACCTTGCCTGGTAGAGTATGGGGGTTGT
AAATTGGCATGGAAATTTAAAGCAGGTTCTTGTGGTGCGCAGCACAAATTAGTTATATATGGGGATGGTAGTTT
TTTCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTCTGTAACTGAATACCACTCTGTAATTGC
AAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTT

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FIGURE 5820

MGKGDPKKPRGKMSSYAFFVQTCREEHKKKHSDASVNFSEFSNKCHYERQMKTYIPPKGETKKKFKDPNAPKRPP
SAFFLFCSEYHPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPGEKKAACLKEYEKDIAAYQAKGKPEAAKKG
VVKAEKSKKKKEEEEDEEDEDEDEDEDEDEDEDEDDDDDE

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FIGURE 5821

TTTAAAGCTGGGAGGTTCTGCCACCAAGCACGGCCTTCCCACTGGGAACACAAACTTGCTGGCGGGAAGAGCCCCG
GAAAGAAACCTGTGGATCTCCCTTCGAGATCATCCAAAGAGAAGAAAGGTGACCTCACATTTCGTGCCCCCTTAGCA
GCACTCTGCAGAAATGCCTCCTCAGCTGCAAAAACGGCCTGAACCTCTCGGCCAAAGTTGTCCAGGGAAGCCTGGA
CAGCCTACCCCAGGCAGTGAGGGAGTTTCTCGAGAATAACGCTGAGCTGTGTGTCAGCCTGATCACATCCACATCTG
TGACGGCTCTGAGGAGGAGAATGGGCGGCTTCTGGGCCAGATGGAGGAAGAGGGCATCCTCAGGCGGGCTGAAGAA
GTATGACAACTGCTGGTTGGCTCTCACTGACCCCAGGGATGTGGCCAGGATCGAAAGCAAGACGGTTATCGTCCAC
CCAAGAGCAAAGAGACACAGTGCCCCATCCCCAAAAACAGGCCTCAGCCAGCTCGGTTCGCTGGATGTCAGAGGAGGA
TTTTGAGAAAGCGTTCAATGCCAGGTTCCCAAGGTGTCATGAAAGGTGCGACCATGTACGTCATCCCATTACAGCAT
GGGGCCGCTGGGCTCGCCTCTGTCAAAGATCGGCATCGAGCTGACGGATTACCCCTACGTGGTGGCCAGCATGCG
GATCATGACGCGGATGGGCACGCCCGTCTTGGAAAGCAGTGGGCGATGGGGAGTTTGTCAAATGCCTCCATTCTGT
GGGGTGCCCTCTGCCTTTACAAAAGCCTTTGGTCAACAACTGGCCCTGCAACCCGGAGCTGACGCTCATCGCCCA
CCTGCCTGACCGCAGAGAGATCATCTCCTTTGGCAGTGGGTACGGCGGGAACCTCGCTGCTCGGGAAGAAGTGCTT
TGCTCTCAGGATGGCCAGCCGGCTGGCCAAGGAGGAAGGGTGGCTGGCAGAGCACATGCTGATTCTGGGTATAAC
CAACCCTGAGGGTGAGAAGAAGTACCTGGCGGCCGATTTCCAGCGCCTGCGGGAAGACCAACCTGGCCATGAT
GAACCCAGCCTCCCCGGGTGGAAGGTTGAGTGCGTGGGGGATGACATTGCCTGGATGAAGTTTGACGCACAAGG
TCATTTAAGGGCCATCAACCCAGAAAATGGCTTTTTCGGTGTGCTCCTGGGACTTCAGTGAAGACCAACCCCAA
TGCCATCAAGACCATCCAGAAGACACAATCTTTACCAATGTGGCCGAGACACGACGAGGGGGCGTTTACTGGGA
AGGCATTGATGAGCCGCTAGCTTCAGGTGTCAACATCACGTCCTGGAAGAATAAGGAGTGGAGCTCAGAGGATGG
GGAACCTTGTGCCACCCCAACTCGAGGTCTGCACCCCTGCCAGCCAGTGCCCCATCATTGATGCTGCCTGGGA
GTCTCCGGAAGGTGTTCCATTGAAGGCATTATCTTTGGAGGCCGTAGACCTGCTGGTGTCCCTCTAGTCTATGA
AGCTCTCAGCTGGCAACATGGAGTCTTTGTGGGGGCGGCCATGAGATCAGAGGCCACAGCGGCTGCAGAACATAA
AGGCAAAATCATCATGTCATGACCCCTTTGCCATGCGGCCCTTCTTTGGCTACAACTTCGGCAAATACCTGGCCCA
CTGGCTTAGCATGGCCAGCACCCAGCAGCCAACTGCCCAAGATCTTCCATGTCAACTGGTTCGGGAAGGACAA
GGAAGGCAAATTCTCTGGCCAGGCTTTGGAGAGAACTCCAGGGTGTGGAGTGGATGTTCAACCGGATCGATGG
AAAAGCCAGCACCAAGCTCACGCCCATAGGCTACATCCCCAAGGAGGATGCCCTGAACCTGAAAGGCCCTGGGGCA
CATCAACATGATGGAGCTTTTCAGCATCTCCAAGGAATTCTGGGAGAAGGAGGTGGAAGACATCGAGAAGTATCT
GGAGGATCAAGTCAATGCCGACCTCCCCTGTGAAATCGAGAGAGAGATCCTTGCCCTGAAGCAAAGAATAAGCCA
GATGTAATCAGGGCCTGAGTGCTTTACCTTTAAATCAATTCCCTTTCCCATCCATAAGGTGCAGTAGGAGCAAGA
GAGGGCAAGTGTTCCCAAATTGACGCCACCATAATAATCATCACACACCGTGAGCAGATCTGAAAGGCACACTT
TGATTTTTTTAAGGATAAGAACCACAGAACTGCGGTAGTAGCTAATGAAATTGAGAAGGGAAATCTTAGCATGC
CTCCAAAAATTCACATCCAATGCATAGTTTGTTCAAATTTAAGGTTACTCAGGCATTGATCTTTTCAGTGTTTTT
TCACCTTAGCTATGTGGATTAGCTAGAATGCACACCAAAAAAATACTTGAGCTGTATATATATATGTGTGTGTGT
GT
ATGTACTGTTATTGAAAATATATTTAATACCTTTGGAAAAATCTTGGGCAAGATGACCTACTAGTTTTTCCTTGAA
AAAAAGTTGCTTTGTTATTAATATTGTGCTTAAATATTTTTATACACCATTTGTTCCCTTACCTTTACATAATTGC
AATATTCCCCCTTACTACTTCTTGGAAAAAAATTACAAAATGAAGTTTTATAGAAAAG

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FIGURE 5822

MPPQLQNGLNLSAKVVQGSLSLDPQAVREFLENNALCQPDHIHICDGSEEENGRLLQMEEEGILRRLKKYDNC
WLALTDPRDVARIESKTVIVTQEQRDTVP IPKTGLSQLGRWMSEEDFEKAFNARFPGCMKGRRTMYVIPFSMGPLG
SPLSKIGIELTDSPIYVASMTRMGTVPVLEAVGDGEFVKCLHSGCPLPLQKPLVNNWPCNPETLIAHLPDR
REIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLILGITNPEGEKKYLAAAFPSACGKTNLAMMNP
PGWKVECVGDDIAWMKFDAQGHRLRAINPENGFFGVAPGTSVKTNPNAIKTIQKNTIFTNVAETSDGGVYWE
GIDE PLASGVTITSWKNKEWSSEDGEPCAHNPNSRFCTPASQCPI IDAAWESPEGVP IEGIIFGGRRPAGVPLV
YEALSW QHGVFVGAAMRSEATAAAEHKGIIMHDPFAMRPFFGYNFGKYLAWLSMAQHAPAAKLPKIFHVNWFR
KDKEGKF LWPGFGENSRVLEWMFNRI
DGKASTKLTP IGYIPKEDALNLKGLGHINMMELFSISKEFWEKEVEDIEKYLE
DQV NADLPCEIEREILALKQRISQM

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[illegible]

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FIGURE 5823B

ACTCCTGCTCCTCCAACCTTTTTTTGCCAAGGTTTGTACACGACTCCCATCTAGGCTGAAAACCTAGAAGTGGAC
CTTGTGTGTGTGCATGGTGTGAGCCCAAAGCCAGGCTGAGACAGTCCTCATATCCTCTTGAGCCAAACTGTTTGG
GTCTCGTTTGCTTCATGGTATGGTCTGGATTTGTGGGAATGGCTTTGCGTGAGAAAGGGGAGGAGAGTGGTTGCTG
CCCTCAGCCGGCTTGAGGACAGAGCCTGTCCCTCTCATGACAACTCAGTGTTGAAGCCCAGTGTCCTCAGCTTCA
TGTCCAGTGGATGGCAGAAGTTCATGGGGTAGTGGCCTCTCAAAGGCTGGGCGCATCCCAAGACAGCCAGCAGGT
TGTCTCTGGAAACGACCAGAGTTAAGCTCTCGGCTTCTCTGCTGAGGGTGACCCCTTTCTCTAGATGGTAGTTG
TCACGTTATCTTTGAAAACCTCTTGACTGCTCCTGAGGAGGCCCTCTTTTCCAGTAGGAAGTTAGATGGGGGTTT
TCAGAAGTGGCTGATTGGAAGGGGACAAGCTTCGTTTCAGGGGTCTGCCGTTCCATCCTGGTTTCAGAGAAGGCCG
AGCGTGGCTTTCTCTAGCCTTGTCACTGTCTCCCTGCCGTGCAATCACCACCTTTCTCCAGAGGAGGAAAATTA
TCTCCCTGCAAAGCCCGGTTCTACACAGATTTACAAATTGTGCTAAGAACCGTCCGTGTTCTCAGAAAGCCCA
GTGTTTTTTGCAAAGAATGAAAAGGGACCCCATATGTAGCAAAAATCAGGGCTGGGGGAGAGCCGGGTTTCAATCCC
TGTCTCATTGGTCGTCCCTATGAATTGTACGTTTCAGAGAAATTTTTTTTCTATGTGCAACACGAAGCTTCCA
GAACCATAAAATATCCCGTCGATAAGGAAAGAAAATGTCGTTGTTGTTGTTTTCTGGAAACTGCTTGAAATCTT
GCTGTACTATAGAGCTCAGAAGGACACAGCCCGTCCTCCCTGCCGTGCTGATTCCATGGCTGTTGTGCTGATT
CAATGCTTTCACGTTGGTTCTTGGCGTGGGAAGTGTCTCCTTTGCAGCCCCATTTCCCAAGCTCTGTTCAAGTT
AAACTTATGTAAGCTTTCCGTGGCATGCGGGGCGCGCACCACGTCCCGCTGCGTAAGACTCTGTATTTGGATG
CCAATCCACAGGCCTGAAGAACTGCTTGTGTGTATCAGTAATCATTAGTGGCAATGATGACATTCTGAAAAGC
TGCAATACTTATACAATAAAATTTTACAATTCTTTGG

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FIGURE 5824

GCGCGCCACCCGGTAGAGGACCCCGCCCGTGCCCCGACCGGTCCCCGCCCTTTTGTAAACTTTAAAGCGGGCG
CAGCATTAAACGCTTCCCGCCCCGGTGACCTCTCAGGGGTCTCCCCGCCAAAGGTGCTCCGCCGCTAAGGAACATG

GCGAAGGTGGAGCAGGTCTTGAGCCTCGAGCCGCAGCAGGCTCAAATTCGAGGTCCCTTCACCGATGTTGTC
ACCACCAACCTAAAGCTTGGCAACCCGACAGACCGAAATGTGTGTTTTAAGGTGAAGACTACAGCACCACGTAGG
TACTGTGTGAGGCCAACAGCGGAATCATCGATGCAGGGGCCCTCAATTAATGTATCTGTGATGTTACAGCCTTTC
GATTATGATCCCAATGAGAAAAGTAAACACAAGTTTATGGTTTCAGTCTATGTTTGCTCCAAGTACACTTCAGAT
ATGGAAGCAGTATGGAAGGAGGCAAAACCGGAAGACCTTATGGATTCAAACCTTAGATGTGTGTTGAATTGCCA
GCAGAGAATGATAAACACCATGATGTAGAAATAAATAAAATTATATCCACAAGTGCATCAAAGACAGAAACACCA
ATAGTGTCTAAGTCTCTGAGTTCTTCTTTGGATGACACCGAAGTTAAGAAGGTTATGGAAGAATGTAAGAGGCTG
CAAGGTGAAGTTTCAGAGGCTACGGGAGGAGAAACAAGCAGTTCAAGGAAGAAGATGGACTGCCGATGAGGAAGACA
GTGCAGAGCAACAGCCCCATTTTCAGCATTAGCCCCAACTGGGAAGGAAGAAGGCCCTTAGCACCCGGCTCTTGGCT
CTGGTGGTTTTTGTCTTTATCGTTGGTGTAATTATTGGGAAGATTGCCTTGTAGAGGTAGCATGCACAGGATGGT
AAATTGGATTGGTGGATCCACCATATCATGGGATTTAAATTTATCATAACCATGTGTAAAAAGAAATTAATGTAT
GATGACATCTCACAGGTCTTGCCCTTTAAATTACCCCTCCCTGCACACACATACACAGATACACACACACAAATAT
AATGTAACGATCTTTAGAAAGTTAAAAATGTATAGTAACTGATTGAGGGGGAAAAGAATGATCTTTATTAATGA
CAAGGGAAACCATGAGTAATGCCACAATGGCATATTGTAAATGTCATTTTAAACATTGGTAGGCCCTTGGTACATG
ATGCTGGATTACCTCTCTTAAATGACACCCTTCCTCGCCTGTTGGTGCTGGCCCTTGGGGAGCTGGAGCCCAGC
ATGCTGGGGAGTGCGGTCAGCTCCACACAGTAGTCCCCACGTGGCCCACTCCCGGCCCAGGCTGCTTTCCGTGTC
TTCAGTTCTGTCCAAGCCATCAGCTCCTTGGGACTGATGAACAGAGTCAGAAGCCCAAAGGAATTGCACTGTGGC
AGCATCAGACGTACTCGTCATAAGTGAGAGGCGTGTTGACTGATTGACCCAGCGCTTTGGAAATAAATGGCAG
TGCTTTGTTCACTTAAAGGGACCAAGCTAAATTTGTATTGGTTTCATGTAGTGAAGTCAAACCTGTTATTCAGAGAT
GTTAATGCATATTTAACTTATTTAATGTATTTTCATCTCATGTTTTCTTATTGTACAAAGAGTACAGTTAATGCT
GCGTGCTGCTGAACTCTGTTGGGTGAACTGGTATTGCTGCTGGAGGGCTGTGGGCTCCTCTGTCTCTGGAGAGTC
TGGTCATGTGGAGGTGGGGTTTATTGGGATGCTGGAGAAGAGCTGCCAGGAAGTGTTTTTTCTGGGTCAGTAAAT
AACAACTGTCATAGGCAGGGAAATTCCTCAGTAGTGACAGTCAACTCTAGGTTACCTTTTTTAAATGAAGAGTAGTC
AGTCTTCTAGATTGTTCTTATACCACCTCTCAACCATTACTCACACTTCCAGCGCCAGGTCCAAGTTTGAGCCT
GACCTCCCCCTTGGGGACCTAGCCTGGAGTCAGGACAAATGGATCGGGCTGCAAAGGGTTAGAAGCGAGGGCACCA
GCAGTTGTGGGTGGGGAGCAAGGGAAGAGAGAACTCTTCAGCGAATCCTTCTAGTACTAGTTGAGAGTTTGACT
GTGAATTAATTTTATGCCATAAAAGACCAACCCAGTTCTGTTTGACTATGTAGCATCTTGAAAAGAAAAATTATA
ATAAAGCCCCAAAATTAAGA

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FIGURE 5825

MAKVEQVLSLEPQHELKFRGPFSTDVVTNLKLGNPDRNVCFKVKTAPRRYCVRPNSGIIDAGASINVSVMQLP
FDYDPNEKSKHKFMVQSMFAPTDTSMEAVWKEAKPEDLMSKLRVFEPAENDKPHDVEINKIISTASKTET
PIVSKSLSSSLDDTEVKKVMEECKRLQGEVQRLREENKQFKEEDGLRMRKTVQSNSPISALAPTGKEEGLSTRLL
ALVVLFFIVGVIIGKIAL

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FIGURE 5826

CTCGCCTCAGTCTCCTCTGTCTCTCCAGGCAAGAGGACCGGCGGAGGCACCTCTCTCGAGTCTTAGGCTGCGG
AATCTAAGACTCAGCGAGAGGAGCCCGGGAGGAGACAGAACCTTTCCCTTTTTTCCCATCCCTTCTTCTTGCTCA
GAGAGGCAAGCAAGGCGCGGAGCTTTAGAAAGTTCTTAAGTGGTCAGGAAGGTAGGTGCTTCCCTTTTTCTCCTC
ACAAGGAGGTGAGGCTGGGACCTCCGGGCCAGCTTCTCACCTCATAGGGTGACCTTTCCCGGCTCCAGCAGCCA
ATGTGCTTCGGAGCCGCTCTCTGCAGAGCCAGAGGGCAGGCCGGCTTCTCGGTGTGTGCCTAAGAGGATCGATCG
GAGGTCCCGGGCTCAGCAGTGGCGCCGAGCTCGCCATAATTACAACGACCTGTGCCCGCCCATAGGCCGCCGGGC
AGCCACCGCGCTCCTCTGGCTCTCCTGCTCCATCGCGCTCCTCCGCGCCCTTGCCACCTCCAACGCCCGTGCCCA
GCAGCGCGCGGCTGCCCAACAGCGCCGGAGCTTCCTTAACGCCACCACCGCTCCGGCGCCAGGTATTCCCTGA
GTCCCCCGAATCGGAATCTGACCACGAGCAGGAGGAGGACCTTGAGCTGTCCCTCCCGAGTGCCTAGAGTA
CGAGGAAGAGTTTCGACTACGAGACCGAGAGCGAGACCGAGTCCGAAATCGAGTCCGAGACCGACTTCGAGACCGA
GCCTGAGACCGCCCCACCCTGAGCCCGAGACCGAGCCTGAAGACGATCGCGGCCCGGTGGTGCCCAAGCACTC
CACCTTCGGCCAGTCCCTCACCCAGCGTCTGCACGCTCTCAAGTTGCGAAGCCCCGACGCTCCCAAGTCGCGC
GCCGCCAGCACTCAGGAGCCCCAGAGCCCCAGGGAAGGGGAGGAGCTCAAGCCCGAGGACAAAGATCCAAGGGA
CCCCGAAGAGTCGAAGGAGCCCAAGGAGGAGAAGCAGCGCGCTCGCTGCAAGCCAAAGAAGCCACCCGCGTGA
CGCGTCCCCGGAGTCCCTTCCAAAAGGGACCCATCCCCATCCGGCGTCACTAATGGAGGACGCCGTCCAGATT
CTCCTTGTTTTTCATGGATTGAGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATGAGGATCCTGCAT
GTTAATGGGTTTAATGGAGAGGGCGGCGAAGAGGACCCGAGGCTGCAAGGAGCAACAGCGATGGCAGTGAGAAG
GCAACCAAAGTGACAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATGTGGCCGCCATGAGCAACCTG
GTGCCCCCGTGGAGCTGGCCAACCCCGAGAACCAGTTGAGAGTGGACTACATCCTGAGTGTGATGAACGTGCCT
GACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCGTGCCTGCTAC
GAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCAGTACTTCTGGACAAGATCGACGTGATCAAGCAGGCT
GACTATGTGCCGAGCGATCAGGACCTGCTTCCGTGCCGTGTCTGACTTCTGGAATCTTTGAGACCAAGTTCCAG
GTGGACAAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGATCCAGTGCTTC
AACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCTACAACATGGTCATCCGGGAGGACAACCAGACC
AACCGCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATCTCTGTGATC
CTGTTCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCCTTGCTGGGAAATCGAAGATTGAGGACTACTTTCCA
GAATTTGCTCGCTACACTACTCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGACCCGGGCCAAG
TACTTCATTGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTACCCCTCATTTT
ACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTGAGCGCATGCACCTT
CGTCAGTACGAGCTGCTCTAAGAAGGGAACCCCCAATTTAATTAAAGCCTTAAGCACAAATTAATTAAGTGAA
ACGTAATTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCGAGTGA
TTTTGCGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGGCCTACAGAAA
AAGGAAAAAAGGCCACAAAAGTTCCCTCTCACTTTCAGTAAAAATAAATAAAACAGCAGCAGCAACAAATAAAA
TGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAAATCAAAATAAAATTAATGTG
AGCAAAGAAAAAAA

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FIGURE 5827

MDRRSRAQQWRRARHNYNDLCPPIGRRAATALLWLSCSIALLRALATSNARAQQRAAAQRRSFLNAHHRSGAQV
FPESPESEDHEHEEADLELSLPECLEYEEEFDYETESETESIIESETDFETEPETAPTTEPETEPEDDRGPVVP
KHSTFGQSLTQRLHALKLRSPDASPSRAPSTQEPQSPREGEELKPEDKDPRDPESKEPKKEKQRRRCKPKKPT
RRDASPESPSKKGP IPIRRH

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FIGURE 5828

ATGCAGGCCTTGAGGCTTCGGCCAGCACTCATGGAGCCCGAGCCTTCAGTGGTGCCAGACCAGGCCTGGGAGGA
TACAGCCCTCCACCAGAAGAAGCTATGCCCTTTGAGTTTGACCAGCCTGCCAGAGAGGCTGCAGTCAACTTCTC
TTACAGGTCCCAGACCTTGCTCCAGGAGGCCAGGTGCTGCAGGGGTCCCGGAGCTCCTCCCGAGGAGCCCCAA
GCCCTCAGGCCTGCAAAGGCTGGCTCCAGAGGAGGCTACAGCCCTCCCCTGAGGAGACTATGCCATTTGAGCTT
GATGGAGAAGGATTTGGGGACGACAGCCCACCCCGGGGCTTTCCCGAGTTATCGCACAAAGTCGACGGCAGCAGC
CAGTTCGCGGCAGTCGCGGCCTCGAGTGCAGTCCGCTCACTCCCGCCGGAACGCGCCTCCCTCTGGGTCCCA
GGCGCCATCGGCAGCCCATCCCAAGAGGCTGTACAGACCTCCTTCTAACTTCACGGGCAGCAGCCCTGGATGGAG
ATCTCCGGACCCCCGTTTCGAGATTGGCAGCGCCCCGCTGGGGTTCGACGACACTCCCGTCAACATGGACAGCCCC
CCAATCGCGCTTGACGGCCCGCCATCAAGGTCTCCGGAGCCCCAGATAAGAGAGAGCGAGCAGAGAGACCCCCA
GTTGAGGAGGAAGCAGCAGAGATGGAAGGAGCCGCTGATGCCGCGGAGGGAGGAAAAGTACCCTCTCCGGGGTAC
GGATCCCCCTGCCGCCGGGGCAGCCTCAGCGGATACCGCTGCCAGGGCAGCCCTGCAGCCCCAGCCGATCCTGAC
TCCGGGGCAACCCAGAAAGATCCCGACTCCGGGACAGCACCAGCCGATCCTGACTCCGGGGCATTTCGACGCCGAT
CCCGACTCCGGGGCAGCCCTGCCGCCCCAGCCGATCCCGACTCCGGGGCGGCCCTGACGCCCCAGCCGATCCC
GACTCCGGGGCGGGCCCTGACGCCCCAGCCGATCCAGATGCCGGGGCGGCCCTGAGGCTCCCGCCGCCCTGCG
GCTGCTGAGACCCGGGCAGCCCATGTGCCCCAGCTGCGCCAGACGCAGGGGCTCCCACTGCCCCAGCCGCTTCT
GCCACCCGGGCAGCCCAAGTCCGCCGGGCGGCCCTCTGCAGCCCTGCCCTCCGGGGCCAGACGCAAGATCCATCTC
AGACCCCCCAGCCCCGAGATCCAGGCTGCCGATCCGCCTACTCCGCGGCTACTCGCGCTCTGCTGGCGGGGC
AAGTCCGAGAGCAGCCGCGGCCGCGCTGTACTACGATGAAGGGGTGGCCAGCAGCGACGATGACTCCAGCGGA
GACGAGTCCGACGATGGGACCTCCGGATGCCTCCGCTGGTTTCAGCATCGGCGAAATCGCCGCCGCCGAAAGCCC
CAGCGCAACTTACTCCGCAACTTTCTCGTGCAAGCCTTCGGGGGCTGCTTCGGTCGATCTGAGAGTCCCCAGCCC
AAAGCCTCGCGCTCTCTCAAGGTCAAGAAGGTACCCCTGGCGGAGAAGCGCAGACAGATGCGCAAGAAGCCCTG
GAGAAGCGGGCCCAGAAGCGCGCAGAGAAGAAACGCAGTAAGCTCATCGACAAACAACCTCCAGGACGAAAAGATG
GGCTACATGTGTACGACCGCCTGCTGCTTCTAGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATG
AGGATCCTGCATGTTAATGGGTTTAAATGGAGAGGGCGGCCAAGAGGACCCGAGGCTGCAAGGAGCAACAGCGAT
GGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCATG
AGCAACCTGGTGCCCCCGTGGAGCTGGCCAACCCGAGAACCAGTTTCAGAGTGGACTACATCCTGAGTGTGATG
AACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCCT
GCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCAGTACTTCTTGACAAGATCGACGTGATC
AAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGCTCTGACTTCTGGAATCTTTGAGACC
AAGTTCAGGTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATC
CAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCATCCGGGAGGAC
AACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATC
TCTGTGATCCTGTTCCCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCTTGCTGGGAAATCGAAGATTGAGGAC
TACTTTCCAGAATTTGCTCGCTACACTACTCCTGAGGATGCTACTCCCGAGCCCGAGAGGACCCACGCGTGACC
CGGGCCAAGTACTTCAATTCAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTAC
CCTCATTTACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTACGCGC
ATGCACCTTCGTGAGTACGAGCTGCTC**TAAGA**AGGGAACCCCCAAATTAATTAAAGCCTTAAGCACAATTAATT
AAAAGTGAAACGTAATTGTACAAGCAGTTAATCACCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCC
CCCGAGTGATTTTGCGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGGC
CTACAGAAAAAGGAAAAAAGGCCACAAAAGTTCCCTCTACTTTTCAGTAAAAATAAAATAAAACAGCAGCAGCAAA
CAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAATAAAAAATCAAAATAAAAA
TTAAATGTGAGCAAAG

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FIGURE 5829

MQALRLRPALMEPGA FSGARPG LGGYSPPPEEAMPFEFDQPAQRGCSQLLLQVPDLAPGGPGAAGVPGAPPEEPQ
ALRPAKAGSRGGYSPPPEETMPFELDGEFGDDSPPPGLSRVIAQVDGSSQFAAVAASSAVRLTPAANAPPLWVP
GAIGSPSQEAVRPPSNFTGSSPWMEISGPPFEIGSAPAGVDDTPVNMDSPPIALDGPPIKVSGAPDKRERAERPP
VEEEAAEMEGAADAAEGGKVPSPGYGSPAAGAASADTAARAAPAAPADPD SGATPEDPD SGTAPADPD SGAFAD
PD SGAAAPAAPADPD SGAAPDAPADPD SGAAPDAPADPDAGAAPEAPAAPAAAETRAAHVAPAAPDAGAPTAPAAS
ATRAAQVRRRAASAAPASGARRKIHLRPPSPEIQAADPPTPRPTRASAWRGKSESSRGRRVYYDEGVASSDDSSG
DESDDGTSGCLRWFQHRRNRRRRK PQRNLLRNFLVQAFGGCFGRSESPQPKASRSLKVKKVPLAEKRRQMRKEAL
EKRAQKRAEKKRSLIDKQLQDEKMGYMC THRLLLGAGESGKSTIVKQMRILHVNGFN GEGGEEDPQAARSND
GEKATKVQDIKNNLKEAIETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDEGVR
ACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFMFDVGGQORDERRKWI
QCFNDVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLAKSKIED
YFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEF LRISTASGDGRHYCYPHFTCAVDTENIRRVFNDCRDIIQR
MHLRQYELL

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[illegible]

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FIGURE 5831

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFN GEGGEE
DPQAARSNSDGEKATKVQDIKNNLKEAIETIVAAMS NLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHA
KALWEDEGVRACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFMFDVG
GQDERRKWIQCFNDVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEK
VLAGKSKIEDYFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEF LRISTASGDGRHYCYPHFTCAVDTENIRRV
FNDCRDIIQRMHLRQYELL

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FIGURE 5832

CCGCCGCCGCCGAGCCCGGCCGCCGCCGCCGCCGCCGCCGCCGCCATGGGCTGCCTCGGGAACAGTAAGACCG
AGGACCAGCGCAACGAGGAGAAGGCGCAGCGTGAGGCCAACAAAAAGATCGAGAAGCAGCTGCAGAAGGACAAGC
AGGTCTACCGGGCCACGCACCGCCTGCTGCTGCTGGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGA
TGAGGATCCTGCATGTTAATGGGTTTAATGGAGACAGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAAACAACC
TGAAAGAGGCGATTGAAACCATTGTGGCCGCCATGAGCAACCTGGTGCCCCCGTGGAGCTGGCCAACCCCGAGA
ACCAGTTCAGAGTGGACTACATCCTGAGTGTGATGAACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGC
ATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCCTGCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACT
GTGCCCAGTACTTCTTGGAACAAGATCGACGTGATCAAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTC
GCTGCCGTGTCTGACTTCTGGAATCTTTGAGACCAAGTTCCAGGTGGACAAAGTCAACTTCCACATGTTTGACG
TGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATCCAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGG
CCAGCAGCAGCTACAACATGGTCATCCGGGAGGACAACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCA
AGAGCATCTGGAACAACAGATGGCTGCGCACCATCTCTGTGATCCTGTTCTCAACAAGCAAGATCTGCTCGCTG
AGAAAGTCCCTTGCTGGGAAATCGAAGATTGAGGACTACTTTCCAGAATTTGCTCGCTACACTACTCCTGAGGATG
CTACTCCCGAGCCCGGAGAGGACCCACGCGTGACCCGGGCCAAGTACTTCATTGAGATGAGTTTCTGAGGATCA
GCACTGCCAGTGGAGATGGGCGTCACTACTGCTACCCTCATTTACCTGCGCTGTGGACACTGAGAACATCCGCC
GTGTGTTCAACGACTGCCGTGACATCATTGAGCGCATGCACCTTCGTGAGTACGAGCTGCTCTAAGAAGGGAACC
CCCAAATTTAATTAAAGCCTTAAGCACAAATTAATTAAGAGTGAAACGTAATTGTACAAGCAGTTAATCACCACCC
ATAGGGCATGATTAAACAAAGCAACCTTTCCCTTCCCCGAGTGATTTTGCGAAACCCCTTTTCCCTTCAGCTTG
CTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGGCCTACAGAAAAAGGAAAAAGGCCACAAAGTTCCCTCTCA
CTTTCAGTAAAAATAAATAAAACAGCAGCAGCAAAACAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATT
GTGTTGTGCAGCATTAAAAAAAATCAAAATAAAAATTAATGTGAGCAAAG

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FIGURE 5833

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFNDS
SEKATKVQDIKNNLKEAIETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDE
GVRACYE
RSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFMFDVGGQRDERRKWI
QCFN
DVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLAKSKIEDY
FPE
FARYTTPEDATPEPGEDPRVTRAKYFIRDEFRLISTASGDGRHYCYPHFTCAVDTENIRRVFNDCRDI
IQRMLR
QYELL

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FIGURE 5834

GGGGTCGGCCGGGTGCTGGGCCGAGGCCGAGGCCGGGGCGGGATCCAGAGCGGGAGCCGGCGCGGGATCTGGGAC
TCGGAGCGGGATCCGGAGCGGGACCCAGGAGCCGGCGCGGGGCCATGCGAGGCGCGGGCCAGGGTGCGGCCCGC
TTCTGCTGCTCGTGCTGCTGGCGGGCGCGGCGCAGGGCGGCCTCTACTTCCGCCGGGGACAGACCTGCTACCGGC
CTCTGCGGGGGACGGGCTGGCTCCGCTGGGGCGCAGCACATACCCCGGCCTCATGAGTACCTGTCCCCAGCGG
ATCTGCCCAAGAGCTGGGACTGGCGCAATGTGGATGGTGTCAACTATGCCAGCATCACCCGAACCAGCACATCC
CCCAATACTGCGGCTCCTGCTGGGCCCACGCCAGCACCAGCGCTATGGCGGATCGGATCAACATCAAGAGGAAGG
GAGCGTGGCCCTCCACCCTCCTGTCCGTGCAGAACGTCATCGACTGCGGTAACGCTGGCTCCTGTGAAGGGGGTA
ATGACCTGTCCGTGTGGGACTACGCCACCAGCACGGCATCCCTGACGAGACCTGCAACAACCTACCAGGCCAAGG
ACCAGGAGTGTGACAAGTTTAACCAATGTGGGACATGCAATGAATTCAAAGAGTGCCACGCCATCCGGAACCTACA
CCCTCTGGAGGGTGGGAGACTACGGCTCCCTCTCTGGGAGGGAGAAGATGATGGCAGAAATCTATGCAAAATGGTC
CCATCAGCTGTGGAATAATGGCAACAGAAAGACTGGCTAACTACACCGGAGGCATCTATGCCGAATACCAGGACA
CCACATATATAAACCATGTCTGTTTCTGTGGCTGGGTGGGGCATCAGTGATGGGACTGAGTACTGGATTGTCCGGA
ATTCATGGGGTGAACCATGGGGCGAGAGAGGCTGGCTGAGGATCGTGACCAGCACCTATAAGGATGGGAAGGGCG
CCAGATACAACCTTGCCATCGAGGAGCACTGTACATTTGGGGACCCCATCGTTTAAAGGCCATGTCACTAGAAGCG
CAGTTTAAGAAAAGGCATGGTGACCCATGACCAGAGGGGATCCTATGGTTATGTGTGCCAGGCTGGCTGGCAGGA
ACTGGGGTGGCTATCAATATTGGATGGCGAGGACAGCGTGGCACTGGCTGCGAGTGTTCTGAGAGTTGAAAGTG
GGATGACTTATGACACTTGACAGCATGGCTCTGCCTCACAATGATGCAGTCAGCCACCTGGTGAAGAAGTGACC
TGCGACACAGGAAACGATGGGACCTCAGTCTTCTTCAGCAGAGGACTTGATATTTGTATTTGGCAACTGTGGGC
AATAATATGGCATTTAAGAGGTGAAAGAGTTTCACTTATCACCATTCTTATGTCACTTTAGAATCAAGGGTGGG
GGAGGGAGGGAGGGAGTTGGCAGTTTCAAATCGCCAAGTGATGAATAAAGTATCTGGCTCTGCACGAG

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FIGURE 5835

MARRGPGWRPLLLLVLLAGAAQGGLYFRRGQTCYRPLRGDGLAPLGRSTYPRPHEYLSPADLPKSWDWRNV DGVN
YASITRNQHIPQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGNDLSVWDYAHQH GIP
DETCNNYQAKDQECDKFNQCGTCNEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANGPISCGIMATERLANY
TGGIYAEYQDTTYINHVVSVAGWGISDGTEYWIVRNSWGEPWGERGWL RIVTSTYKD GKGARYNLAIEEHCTFGD
PIV

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FIGURE 5836

CGGGTAGCGGCTCTGAAAGTTTATGACCGCCGAGCCAACTCCTGGCCGGAGCTGGAGACGCAGCGAGCGATCG
GCCGGCCTCGAACCCCCACAGCTGGAGGGCGAGGCCAGCTGTACCCGGCCCCAGTGCCCTTTCGCGGCCACAAGC
GGCCGTCTCTCTGGTCCGGTGCTCCGGCGCCTGATCTAGGTTCTATGGAGCCGGGGCTGTGGCTCCTTTTCGGGCT
CACAGTGACCTCCGCCGCAGGATTTCGTGCCTTGCTCCAGTCTGGGGATGCTGGCAGGCGCGGCGTGTCCAGGC
CCCCACTGCAGCCAGATCTGAGGGGGACTGTGAAGAGACTGTGGCTGGCCCTGGCGAGGAGACTGTGGCTGGCCC
TGGCGAGGGGACTGTGGCCCCGACAGCACTGCAGGGTCCAAGCCCTGGAAGCCCTGGGCAGGAGCAGGCGGCCGA
GGGGGCCCCCTGAGCACCACCGATCCAGGCGCTGCACGTGCTTACCTACAAGGACAAGGAGTGTGTCTACTATTG
CCACCTGGACATCATTGGATCAACACTCCCGAACAGACGGTGCCCTATGGACTGTCCAACCTACAGAGGAAGCTT
CCGGGGCAAGAGGTCTGCGGGGCCACTTCCAGGGAATCTGCAGCTCTCACATCGGCCACACTTGCCTGCGCTTG
TGTGGGGAGATATGACAAGGCCTGCCTGCCTTTTGCACCCAACTCTGGACGTCAGCAGTAATCAAGGACGGC
AGAAAAAACAGACAAAGAAGAGGAAGGGAAGGTTGAAGTCAAGGACCAACAAAGCAAGCAGGCTTTAGACCTCCA
CCATCCAAAGCTCATGCCCGGCAGTGGACTCGCCCTCGCTCCATCTACCTGCCCCCGTGCCTCTTTCAGGAAGG
AGCCCCCTTAGGAGGACAGGCCTGCAGCTCCAATTTTCATGCAGGAAATTGGTTTTGGAGAGTTTGGCAAGTTGGA
AAGCCACTTACTGGCTTTTGACATGACTTCTCTTGGAGAATAAGTGGACTCCAAGCTAACTCTTTGCAAATGTAA
ACACATGTCCATCTTGTTAATAAATGCAAAATGCCCGTGAGCAGAAGCATGCGACTTTCATATCCTTGCTTAGA
ATAGGCTGCATGGTGTATGTGAGTGAGGGCCACGAGGCGTCGGCTTTAGACACAGATCATAGCTCTACAGGAGTT
TATGAATTTGAAGCTTATGGGATTTTGGCAGAGAAATTTTTCAGCTGTGCTTGATACCCACCAAAAGAATGTATCT
CGAAAGAATGAAGGAAGAAGAAAAAAGGATCCTTGATGTTTGTGACAAGAAAATGAGAAAGTTAGTATCTGCAAT
ACAGAGCTTGTTTCTGTTTCTGAGTACTGACCTCTGTATTCTGTATAGACACCAGGCCGATACACAGTGGAGTTCC
CAGGCCTTGTTTGCAGGAAGCCGACTGTAAAGACAGCCCCAGCTCAAGGCTATTAGGTTGAATATTTGCTTTTCAT
GAGTAAATGTGGATCTTTGGGGAATGGCTTCAAATAAGTCACGAACACAAATTCCTTGTAATTTATGTAAATTC
CTGTTTATATAAATTGGCAACAACCTTATACCGTCTGACAGTTCAAATCTCTTTCAGCTGCGCTCTTCCCACCGA
GCCGAGCTTACTGTGAGTGTGGAGATGTTATCCACCATGTAAAGTCGCCTGCGCAGGGGAGGGCTGCCCATCTC
CCCAACCCAGTCACAGAGAGATAGGAAACGGCATTGAGTGGGTGTCCAGGGCCCCGTAGAGAGACATTTAAGAT
GGTGTATGACAGAGCATTGGCCTTGACCAAATGTTAAATCCTCTGTGTGTATTTTATAAGTTATTACAGGTATAA
AAGTGATGACCTATCATGAGGAAATGAAAGTGGCTGATTTGCTGGTAGGATTTTGTACAGTTTAGAGAAGCGATT
ATTTATTGTGAACTGTTCTCCACTCCAACCTCTTATGTGGATCTGTTCAAAGTAGTCACTGTATATACGTATA
GAGAGGTAGATAGGTAGGTAGATTTTAAATTGCATTCTGAATACAACTCATACTCCTTAGAGCTTGAATTACAT
TTTTAAAATGCATATGTGCTGTTTGGCACCGTGGCAAGATGGTATCAGAGAGAAACCCATCAATTGCTCAAATAC
TCAGAAAGTACTGTCAAAAGCCTAATAAAAAACCTAAAGTTTGCTCTG

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FIGURE 5837

MEPGLWLLFGLTVTSAAGFVPCSQSGDAGRRGVSQAPTAARSEGDCEETVAGPGEETVAGPGEGTVAPTALQGGS
PGSPGQEQAAEGAPEHHRSRRCTCFTYKDKECVYYCHLDIIWINTPEQTVPYGLSNYRGSFRGKRSAGPLPGNLQ
LSHRPHLRACACVGRYDKACLFCTQTLDVSSNSRTAEKTDKEEEGKVEVKDQQSKQALDLHHPKLMPGSGLALAP
STCPRCLFQEGAP

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FIGURE 5838

GGCACGAGGCGGCCGCCCGCCGGCATGAGCTACGACCGCGCCATCACCGTCTTCTCGCCCCGACGGCCACCTCTTC
CAAGTGGAGTACGCGCAGGAGGCCGTCAAGAAGGGCTCGACCGCGGTTGGTGTTTCGAGGAAGAGACATTGTTGTT
CTTGGTGTGGAGAAGAAGTCAGTGGCCAACTGCAGGATGAAAGAACAGTGCGAAGATCTGTGCTTTGGATGAC
AACGTCTGCATGGCCTTTGCAGGCCTCACCGCCGATGCAAGGATAGTCATCAACAGGGCCCGGGTGGAGTGCCAG
AGCCACCGGCTGACTGTAGAGGACCCGGTCACTGTGGAGTACATCACCGCTACATCGCCAGTCTGAAGCAGCGT
TATACGCAGAGCAATGGGCGCAGGCCGTTTGGCATCTCTGCCCTCATCGTGGGTTTCGACTTTGATGGCACTCCT
AGGCTCTATCAGACTGACCCCTCGGGCACATAACCATGCCTGGAAGGCCAATGCCATAGGCCGGGGTGCCAAGTCA
GTGCGCGAGTTCCTGGAGAAGAACTATACTGACGAAGCCATTGAAACAGATGATCTGACCATTAAGCTGGTGATC
AAGGCACTCCTGGAAGTGGTTCAGTCAGGTGGCAAAAACATTGAACTTGCTGTCATGAGGCGAGATCAATCCCTC
AAGATTTTAAATCCTGAAGAAATTGAGAAGTATGTTGCTGAAATTGAAAAGAAAAAGAAGAAAACGAAAAGAAG
AAACAAAAGAAAGCATCATTGATGAATAAAATGTCCTTTGCTTGTAATTTTAAATTCATATCAATCATGGATGAGT
CTCGATGTGTAGGCCCTTCCATTCCATTTATTCACACTGAGTGTCTTACAATAAACTTCCGTATTTTT

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FIGURE 5839

MSYDRAITVFSPDGHLFQVEYAQEAVKKGSTAVGVRGRDIVVLGVEKKSVAKLQDERTVRKICALDDNVCMAFAG
LTADARIVINRARVECQSHRLTVEDPVTVEYITRYIASLKQRYTQSNRRPFGISALIVGFDFDGTPLRYQTDPS
GTYHAWKANAIGRGAKSVREFLEKNYTDEAIETDDLTIKLVIKALLEVVQSGGKNIELAVMRRDQSLKIILNPEEI
EKYVAEIEKEKEENEKKKQKKAS

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FIGURE 5840A

GCAGCCGGAGTATCCACCTCGATGACCACGGGCTGAGCCCCGCGCCGCCACC**ATG**TCCGTGGCCTTCGCGTCTGC
CCGGCCAAGAGGCAAAGGGGAGGTTACGCAGCAAACCATCCAGAAGATGCTGGACGAGAACCACCACCTGATCCA
GTGCATCCTGGAGTACCAGAGCAAGGGCAAGACGGCCGAGTGCACGCAGTACCAGCAGATCCTGCACCGGAACCT
GGTATACCTGGCCACGATCGCAGACTCCAACCAGAACATGCAGTCCCTGCTTCTGCCCCGCCCACGCAGAACAT
GAACCTGGGGCCCTGGAGCCCTGACTCAGAGCGGCTCCAGCCAGGGCCTGCACTCTCAGGGCAGCCTGAGTGACGC
CATCAGCACGGGCCTGCCACCCTCCTCCTCCTGCAGGGCCAGATTGGCAACGGGCGAGCCACGTGTCCATGCA
GCAGACGGCGCCTAACACGCTGCCACCACCTCCATGAGCATCTCTGGGCCCCGCTACAGCCACGCGGGACCCGC
CTCGCAGGGCGTCCCCATGCAGGGGCAAGGCACCATCGGCAACTACGTGTCTCGGACCAACATCAACATGCAGTC
CAACCCAGTCTCCATGATGCAGCAGCAGGCGGCCACGTGCGACTACAGCTCGGCGCAGGGCGGCAGCCAGCACTA
CCAGGGCCAGTCGTCCATCGCCATGATGGGGCAGGGCAGCCAGGGGAGCAGCATGATGGGCAGCGGCCCATGGC
GCCCTACCGGCCCTCCAGCAAGGCTCTTCCAGCAGTACCTGGGCCAGGAGGAGTACTATGGCGAGCAGTACAG
CCACAGCCAGGGCGCCGCGGAGCCCATGGGCCAGCAGTACTACCCCGACGGCCATGGCGATTACGCCTACCAGCA
GTCACTCTACACGGAGCAGAGCTACGACCGGTCTTTCGAGGAGTCCACGCAGCACTACTATGAGGGGGGAAACTC
CCAGTACAGCCAGCAGCAGGCGGGTACCAGCAGGGTGCCGCGCAGCAGCAGACGTACTCCCAGCAGCAGTACCC
CAGCCAGCAGAGCTACCCCGGGCAGCAGCAGGGCTACGGGTCTGCCAGGGAGCCCCGTCACAGTACCCCGGCTA
CCAGCAAGGCCAAGGCCAGCAGTACGGAAGCTACCGAGCACCAGCAGCAGCGCCGTCTGCCAGCAGCAGCGGCC
CTACGGCTATGAACAGGGCCAGTATGGAAATTACCAGCAG**TAA**GGGACACACATTCTGGCTGGAGCCCTTGTGGT
AGCGTGTTTCATCCAGGGGCCGGATGGGCTGGCGGCAGCTCTGGTGAATTGTGACATGTTGGTTACCTGTTCCGCC
AGTGCCACGTCTGCATGTGAAGCGTGCTCATTTCATGCTGGGTATGACGCCGAGCGCACACCACTGGCGTGAGAC
AGCGCTTGGTGGTGTGATACTTTTGGTGCTGTGTATAGTATTGTATGTGCGGTACACGGAGAGGTATCCTTTTTTT
GTCCCCCGCCCCCTTCTCAATGTTTCTAGCTAGCTTTGGGGGTCAATTTGTCACTCAGAGCATTCTGTGCCAGGG
ACAGGACAGATCTCGAGGACACCACAGTCCACCTGTTCCCGTCAACAGACGTTAGGTCTCATTTCCTCCTCATG
CAGTGTTGTAGTGTGGGTGTCAACTTTTCTTTAACTGGCTACGCCACAGCTGGACACACATGCAGCCCCCTGGAG
GGCAGCCTCTTCTGTGCCTCGATGGGGTGGGTGGGAGGGCATCTTCTGTGCGTTGGGTGAGTTTCTGTACGTA
ACGAAAAGGATAAACATCTCCACGGGAGAGGCCACAGATGGCCACTTCCAGAGCTTGCCCATTGCCCTGTCTCTC
GCCAATTCGGTTTATCCAAAAGGTACATGTTTTTGTATTAAAAAGTAAACAGGGATCAGTGACTGTATTCCAAA
TAAATATGAATCCCTAAGGGCCGTGGACAAATTGCCTAACCCAGGGCCAGCGGTATTGCTGAAGGAAAGGGGCG
CTCTCTGGGAAGTGGGCCCTCAGAGATTACTCTGGCTTTGACCCCTTGTTTAGCTGATGGTCATTTCTGGGATTGG
AATATTTAATAAGCCCAATTCTAAGTTGATAGGTAATTTTAAATATTCAAACCAATCTTCCCAACAGTTGGCAA
GTTGTTTATTTTATATTATTTCTTCCAGGACCTACTTGCTCAGATCTCCAAGCAAGCATTTCTTTTCTTTTAGGG
ATGCTGAAAGTCACATCCAGTTACATTACTGTGTTCTTTCTAATGAAAAGTAAAGGTTTTATATAGAGAACTT
GAGTAATTTTACATTTCTAAGACATTAAATCCCATTTAAATTCGTGTGAACATTAAAGACAGCACACTTGCAA
AAGTATGGTCAAAGGAAAAAATCCACATTTCAATTAACAAGTAGCATGGACATTGATCAACCTTTAGTTGGA
ATAATAATATTCATATTTGCTATGAATCCTTTTAAAAAATCTTTGGATAAATGCTGACAGATTTCCAAGAACTA
CCAAGAAAATACAAGAGATATCCAATGCTTGATATATGAGGCCTAGTAATAACGATATTTCTCTTTAATTGATGT
TTTGTTTTAAAGTTAAAGTAATTTCTGGCGTGGTGGTTACGCCTGTAATCCAGCACTTTGGGAGGCCGAAG
CGGGCGGATCACCTGAGGTCGGGAGTTTCGAGACCAGCCTGACCAACATGGAGAAACCCCGTCCCTACTAAAAATA
CAAAATTAGCCAGGTATGGTGGTGCATACCTGTAATCCAGCTACTCGGGAACCTGAGGCAGGAGAATGGCTTGA
ACCCAGGAGACAGAGGTTGTGGTGGGGCAAGATCGCACCATTGCACCCGAGCCTAGGCAACAAGAGTGAAATTC
GTCTCAAAAAAATAAATAAATAAATAAATAAAGTTAAATTAATTTTATCCAGAGTCGGGTGCTTTAGAA
TTTATAAGTCACCTATGTGTTTTGCTTGAATTAATTCGACAGCCCCATGAGGAAATCTGGAGGCAGGTAACAG
TTCCCATTTTAGAGATGAAGAACTGAGGCACAGATTAAAGGACTTGCCGTGTGTTGAATACCAGTCCTGTTCTAGG
ACATTCTCCCCCTCTCCTAGGAGACGGATGTCACGCACAAATGGGGAGAGAAGTGTTTATTTTGTAGGCACTAAGG
GTTTCTAAAACCCCTTAACACTGGTAAGGGCTCAAAAATAAACGTATGTGTTTCATATTTCGATCACCGAAATGAGAG
TTCTTAATTGTCAATTGACAAACGCGTTAGCAATTTAGTTAGGGAGTCATCTCCCTTGATTGTGTTCTTTTCTCT
GTCAATTTTTCATAGACCTAATTTGCAAACTCAATCGGGGACTAAAATTTCCCACTGAAAATGTTAAACATTTTAG
ATAACTGTGAAGATAGTTTTATTTTTATTCCTTGCCAATCTGGGAATATGCCTTTTTTTGTGTGTTTGTGTGTTTT
TTAAGTGCTGTATTAATAATACTTTCTGAAAGAAAAGGACACTTACCCCAAACTTCAATCTGAAATGTCTTACA

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FIGURE 5840B

TTAAGAATATCTTGAATGTTGTGTATATATTTTAAAAAGCACTTTGCAAAATAGTTTGTACATTTATTTCTAAT
TTATACATGATTTTTGGTGTTAATATATTTAATGATTAATAACAGAATGTTTATTTAATGTGCTGTCCATTTTTA
TGTAATATTATGGGGAAAGTGATGCCAGCAGTTCCTTTTCATTATTCTATCTTCTGTGCATATGAATGTTGAGCAA
AGCTTAGGCCAACATGAATTGTTTGTGAAGTGTGGTTGATGGTGCTTTGTTTTTTTCTGACTACTTCTATGGAAG
GCCAGTGAAGAAGCAAAGGAAGACATGAAAATTGACGCTCATTCTTCTTCCTATTGTTCCCTGACATCCAGCAAA
TTGTGAATTTGAAAAATGATGGCCAGTTTTTCAAGAGTGCTGACAAATTCATATTGGTATGCAAAAGCTCATCACC
CATTAAAGGTTTGTGTTGAATCAACAGTACTCAGCATATTAAAACAGTACATCAGAACTCATGCCAACAGTCTTT
ATGATGGGATTAAGGTGGACAAGATCTCCTAAGATCTGTGAATGGGATTAAGGTGGACAAGATCTCCTAAGATCT
GAAAAGAAACCTTAATACGCTCATATGGTTGGAGTGTTAAGTGAACCTCTGATTTTGTGAGGTTTTTCTACGTG
TAGGCGTGAATAGGGGGCACCCCTTCAAACTGTACAAAGAAGACGACTGTTTTCCATTTCCATTTAAACATTTT
TAGCCACTTCATTTCTATTTATTGAACAGGTCAAATTTGTCTTGTTATTTGTGAGTACAGTACATTTAAAAACA
TCCTTATCGGTTATTTTTTTTTTTCAGTCGGAGTTTGACGTATAAATTGTTTATGCTTTTGGTGTAACTCTTAATA
AACTGGTTCTTCAAAAATC

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FIGURE 5841

MSVAFASARPRGKGEVTQQTIQKMLDENHHLIQCILEYQSKGKTAECTQYQQILHRNLVYLATIADSNQNMQSL
PAPPTQNMNLGPGALTQSGSSQGLHSQGSLSDAISTGLPPSSLLQGQIGNGPSHVSMQQTAPNTLPTTSMSISGP
GYSHAGPASQGVPMQGGGTIGNYVSRTNINMQSNPVSMQQAATSHYSSAQGGSQHYQGQSSIAMMGQGSQGS
MMGQRPMAPYRPSQQGSSQQYLGQEYYGEQYSHSQGAAEPMGQQYYPDGHGDYAYQQSSYTEQSYDRSFESTQ
HYYEGGNSQYSQQQAGYQQGAAQQQTYSQQQYPSQQSYPGQQQGYGSAQGAPSQYPGYQQGQGYGSYRAPQTA
PSAQQQRPYGYEQGYGNYQQ

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FIGURE 5842

GGGGCCATGGCACCTGCAAGGTGTTTCTCAGCAAGATTGAGGACCGTGTTTCAGGGCGTGGGGCATTGGGCTTTG
TCCACATGGGCTGGCCTGAAGCCCAGCCGGCTACTGCCACAGCGGGCTTCTCCCAGGCTGCTCTCGGTCGGCCGT
GCGGACCTCGCCAAGCATCAGGAACCTCCCGGGGAAGAAGCTGCTCTCTGAGAAAAAGCTGAAAAGGTACTTTGTG
GACTATCGGAGAGTGCTTGTCTGTGGAGGAAACGGAGGCGCTGGGGCAAGCTGCTTCCACAGTGAGCCCCGCAAG
GAGTTTGGAGGCCCTGATGGAGGGGACGGAGGCAACGGTGGACACGTCATTCTGAGAGTTGACCAGCAAGTCAAG
TCCCTGTCGTCGGTCTGTCTGCGGGTACCAGGGTTTTCAGTGGAGAAGATGGAGGGAGTAAAAACTGCTTCGGGCGC
AGTGGCGCCGTCTCTACATCCGGGTCCCCGTGGGCACGCTGGTGAAGGAGGGAGGCAGAGTTGTGGCCGACCTG
TCTTGGCTGGGAGATGAGTACATTGCCGCGCTGGGCGGGGACAGGAGGGAAAGGCAACCGCTTCTTCTGGCCAAC
AACAACCGTGCCCCCTGTGACCTGTACCCCTGGACAGCCAGGACAGCAGCGAGTTCTCCACCTGGAGCTCAAGACG
GTGGCCACGCCGAATGGTGGGATTCCCCAACGCCGGGAAGTCTCACTGCTCCGGGCCATTTCAAACGCCAGA
CCCGCGTGGCTTCTTACCCGTTCAACACCCTGAAGCCCCACGTCGGGATCGTCCACTACGAAGGCCACCTACAA
ATAGCAGTGGCCGACATCCCCGGCATCATACGAGGCGCCACCAGAACAGGGGTCTGGGGTCCGCTTCTCTCAGG
CACATCGAGCGCTGCCGCTTTCTCTTGTTCGTGGTGGATCTTTCTCAGCCTGAGCCGTGGACTCAAGTTGACGAT
TTAAATATGAACTGGAGATGTATGAAAAGGGCCTGTCTGCGAGGCCCCACGCAATCGTCGCAAAACAAGATTGAC
CTCCCTGAAGCCCCAAGCCAATCTGTCCAGCTCCGGGATCACTTGGGACAGGAGGTATCGTGTCTGCGCGTTG
ACCGGCGAGAACCTGGAGCAGCTGCTGTTGCACCTGAAGGTGCTGTATGACGCCTACGCGGAGGCCGAGCTGGGC
CAGGGCCGCCAGCCGCTCAGGTGGTAGCCACGCCAGAGCGGGGTGCGCTCTGGGCCTCTGTCTGAGCAAACTGG
GTGTGAATTCGGTGGTTTTGAATGCATAAAGTGCTTGTGGACACGGGGGAGTTGTGGTGTCTTGGGTCTCTGG
GCCCCGCTGTGGCCTGAGATGCCCTCATGTTGGGAAGCATTCGCTGCCCCCTACCCCGCCTGCCCTCCGTATT
TCTGCACTGTGACGCTGCACCGACTGATGAGCCAGTTGCTCATTGTGTCTGATTAAACACCCCTAATAAGGGGT
TGGGTGCCCCATAACGGGGTGGCCCTGCCGCTGACTCAGGTCTCCGCCATGCACGCGTGGACTCTCGGATGAGCT
CAGCAGAACCGCACAGCCAGAGCCCCAGGTGAGAAGTGACAGACCAGGGTTCTCAGCACAGTGCCCGTCGTGCTTC
CATGGCTTGTACGGAGAGAGACCTCTGGATCCACACTGGGGTGTGCTCTGGCCGTTGTCCAGCAGCCCTGCGG
TACCGCAAGCCCAGGCACCAAGTGTCTCGGGGGGCTCACTGCTGCGCAAGGGGTGGGGCCGAGGATGCAAGTCCA
GGCAGAGCGGCGCAGGCAGCTGTGAGCTTTTCTCCATCAGCCGTCTGAGAAGAGCAGTGAGGCCAGCTGCTTCTCT
GTCCTTCAGAACACTTCTCTGTGCTCAGTGGGAGCCAGGAAGCCTCAGGCTTCACGACTGAATGCACCCAATATC
CGACCTGGCTGCGTGTCTTCTGGCTGGGCTGCCGTGTGCACAGCAAGTTAACTAGAGGGGCTGTGGGCCATGGAAC
TGTCAGCGTTATTCTCAGAAGCGCGCGTGGCATGGGCAGGGTATAGTGAGGAGTGGAAGGAGACGTGTGCCTGG
TAATATGGGGCGGAATTTCCACTCAGCTCCATTTGCTGGGGATTTAAAGAGAACCCTTGTGCTACGCCAGGCAGT
TACCGAGCCGAAGGGAGATGATGGGCCTTCGCCCCCTCAGTGGGATGGCAGCTGAGGGGGCCCTGCATTGACCGT
CGAGACTGCAGCAGCGCCTTCTCTGTCTGTGGTTTAAAGTCTTTGCAGTCAAGTACTGATGCATCCAAGCCAGGCC
CATGCCTGGTGTCTCCCTGACTGCAGAGGAGCCCCAGGGCAAGGACAGCTCAGCTGCTGGCAGCCTGCCTGGCCC
ATAGACATCCCCAAGTAGTCTCAGGCCTCTGACATGTCCCTGAGGGGGCCCTAAGAAAGAAAGTGAGGGGGACA
CTCCAGAGGCTGTCTGGGAGGATCATGTGAGCCTGGGAGGTCAAGGCTGCAGTGAGCCGTGATTGCACCACTGC
GGCACGCTGGCTCATGCCTGTAGTCCAGCACTTTGGGAGGCCGAGGCTGGTGGATCACAAAGTCAGGAGATTGA
GACCATCCTGGCTAACACAGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGCGGTC
ACCTGTAGTCCAGCTACTCGGGAGGCTGAAGCAGGAGAATGGCGTGAACCTGGGAGGCGGAGCTTGCAGTGAGC
CGAGATCACACCACTGCACTCCAGCCTGAGCGACAGAGCAAGACTCCATCTC

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FIGURE 5843

MAPARCF SARLRTVFQGVGHWALSTWAGLKPSRLLPQRASPRLLSVGRADLAKHQELPGKKLLSEKKLKRYFVDY
RRVLVCGGNGGAGASCFHSEPRKEFGGPDGGDGGNGGHVILRVDQQVKSLSVLSRYQGFSGEDGGSKNCFGRSG
AVLYIRVPVGTILVKEGGRVVADLSCVGDEYIAALGGAGGKGNRFFLANNNRAPVTCTPGQPGQQRVLHLELKTVA
HAGMVGFNPAGKSSLLRAISNARPAVASYPFTTLKPHVGIVHYEGHLQIAVADIPGIIRGAHQNRGLGSAFLRHI
ERCRFLLFVVDLSQPEPWTQVDDLKYELEMYEKLSARPHAIVANKIDLPEAQANLSQLRDHLGQEVIVLSALTG
ENLEQLLLHLKVLYDAYAEELGQGRQPLRW

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FIGURE 5844

GCGAGCCCGGACGGCGCCTCTCGAACGAGTGTGGGCGCGAGGCAGGATGACGACCTCAGGCGCGCTCTTTCCAAG
CCTGGTGCCAGGCTCTCGGGGCGCCTCCAACAAGTACTTGGTGGAGTTTCGGGCGGGAAAGATGTCCCTGAAGGG
GACCACCGTGACTCCGGATAAGCGGAAAGGGCTGGTGTACATTAGCAGACGGACGACTCGCTTATTCACTTCTG
CTGGAAGGACAGGACGTCCGGGAACGTGGAAGACGACTTGATCATCTTCCCTGACGACTGTAGTTCAAGCGGGT
GCCGCAGTGCCCCAGCGGGAGGGTCTACGTGCTGAAGTTCAAGGCAGGGTCCAAGCGGCTTTTCTTCTGGATGCA
GGAACCCAAGACAGACCAGGATGAGGAGCATTGCCGGAAGTCAACGAGTATCTGAACAACCCCCCGATGCCTGG
GGCACTGGGGGCCAGCGGAACGAGCGGCCACGAACCTCTCTGCGCTAGGCGGTGAGGGTGGCCTGCAGAGCCTGCT
GGGAAACATGAGCCACAGCCAGCTCATGCAGCTCATCGGACCAGCCGGCCTCGGAGGACTGGGTGGGCTGGGGGC
CCTGACTGGACCTGGCCTGGCCAGCTTACTGGGGAGCAGTGGGCCTCCAGGGAGCAGCTCCTCCTCCAGCTCCCCG
GAGCCAGTCGGCAGCGGTACCCCGTCATCCACCACCTCTTCCACCCGTGCCACCCAGCCCCCTTCTGCTCCAGC
AGCTGCCTCAGCAACTAGCCCCGAGCCCCGCGCCAGTTCCGGGAATGGAGCCAGCACAGCAGCCAGCCCCGACCCA
GCCCATCCAGCTGAGCGACCTCCAGAGCATCCTGGCCACGATGAACGTACCAGCCGGGCCAGCAGGCGGCCAGCA
AGTGGACCTGGCCAGTGTGCTGACGCCGGAGATAATGGCTCCCATCCTCGCCAACGCGGATGTCCAGGAGCGCCT
GCTTCCCTACTTGCCATCTGGGGAGTCGCTGCCGCGAGACCGCGGATGAGATCCAGAATACCCTGACCTCGCCCCA
GTTCCAGCAGGCCCTGGGCATGTTTCAGCGCAGCCTTGGCCTCGGGGCAGCTGGGCCCCCTCATGTGCCAGTTCGG
TCTGCCTGCAGAGGCTGTGGAGGCCGCCAACAAGGGCGATGTGGAAGCGTTTGCCAAAGCCATGCAGAACAACGC
CAAGCCCGAGCAGAAAGAGGGCGACACGAAGGACAAGAAGGACGAAGAGGAGGACATGAGCCTGGACTGAGCCAC
GCGCCGTCTCCGAGGAACCTGGGCGCTTGCAGTGCGTTGCACACCCTCACCTCCCACCCACTGATTATTAATAAA
GTCTTTTCTTTACCTGCAAAAAA

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FIGURE 5845

MTTSGALFPSLVPGSRGASNKYLVEFRAGKMSLKGTTVTPDKRKGLVYIQQTDDSLIHFCWKDRITSGNVEDDLII
FPDDCEFKRVPQCPSGRVYVLKFKAGSKRLFFWMQEPKTDQDEEHCRKVNEYLNPPMPGALGASGTSGHELSAL
GGEGGLQSL LGNMSHSQ LMQ LIGPAGLGGLGGLGALTGPGLASLLGSSGPPGSSSSSSSSRSQSAAVTPSSTTSST
RATPAPSAPAAASATSPSPAPSSGNGASTAASPTQPIQLSDLQSI LATMNVPAGPAGGQQVDLASVLTPEIMAPI
LANADVQERLLPYLP SGESLPQTAEIQNTLTSPQFQQALGMFSAALASGQLGFLMCQFGLPAEAVEAANKGDVE
AFAKAMQNNAKPEQKEGDTKDKKDEEDMSLD

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FIGURE 5846A

ATGGCGAAGCGGCTCTGCGCGGGGAGCGCACTGTGTGTTTCGCGGCCCCCGGGGCCCCGCGCCGCTGCTGCTGGTC
GGGCTGGCGCTGCTGGGCGCGGCGCGGGGCGGGGAGGAGGCGGGCGGGGCTTCAGCCTGCACCCGCCCTACTTC
AACCTGGCCGAGGGGCGCCGCATCGCCGCTCCGCGACCTGCGGAGAGGAGGCCCCGGCGCGCGGCTCCCCGCGC
CCCACCGAGGACCTTTACTGCAAGCTGGTAGGGGGCCCCGTGGCCGGCGGCGACCCCAACCAGACCATCCGGGGC
CAGTACTGTGACATCTGCACGGCTGCCAACAGCAACAAGGCACACCCCGCGAGCAATGCCATCGATGGCACGGAG
CGCTGGTGGCAGAGTCCACCGCTGTCCCGCGGCCTGGAGTACAACGAGGTCAACGTCACCTGGACCTGGGCCAG
GTCTTCCACGTGGCCTACGTCTCATCAAGTTTGCCAACCTACCCCGGCCGACCTCTGGGTGCTGGAGCGGTCC
ATGGACTTCGGCCGCACCTACCAGCCCTGGCAGTTCTTTGCCTCTCCAAGAGGGACTGTCTGGAGCGGTTCGGG
CCACAGACGCTGGAGCGCATCACACGGGACGACGCGGCCATCTGCACCACCGAGTACTACGTCATCGTGGCCCTG
GAGAACGGAGAGATCGTGGTGTCCCTGGTGAACGGACGTCCGGGCGCCATGAATTTCTCTACTCGCCGTGCTA
CGTGAGTTTACCAAGGCCACCAACGTCCGCTGCGCTTCTGCGTACCAACACGCTGTGGGCCATCTCATGGGG
AAGGCGCTGCGGGACCCACGGTCACCCGCCGTTATTATTACAGCATCAAGGATATCAGCATCGGAGGCCGCTGT
GTCTGCCACGGCCACGCGGATGCTGCGATGCCAAGACCCACGGACCCGTTACGGCTGCAGTGCACCTGCCAG
CACAACACCTGCGGGGGCACCTGCGACCGCTGTGCCCCGGCTTCAATCAGCAGCCGTGGAAGCCTGCGACTGCC
AACAGTGCCAACGAGTGCCAGTCTGTAACTGCTACGGCCATGCCACCGACTGTACTACGACCCCTGAGGTGGAC
CGGCGCCGCGCCAGCCAGAGCCTGGATGGCACCTATCAGGGTGGGGGTGTCTGTATCGACTGCCAGCACCACACC
ACCGGCGTCAACTGTGAGCGCTGCTGCCCCGCTTCTACCGCTCTCCAACCACCTCTCGACTCGCCCCACGTC
TGCCGCGCGCTGCAACTGCGAGTCCGACTTACCGATGGCACCTGCGAGGACCTGACGGGTGATGCTACTGCCGG
CCCAACTTCTCTGGGGAGCGGTGTGACGTGTGTGCCGAGGGCTTACGGGCTTCCAAGCTGCTACCCGACGCCC
TCGTCTCTCAATGACACCAGGGAGCAGGTGCTGCCAGCCGGCCAGATTGTGAATTGTGACTGCAGCGCGGCAGGG
ACCCAGGGCAACGCTGCGCGAAGGACCCAAGGGTGGGACGCTGTCTGTGCAAAACCAACTTCCAAGGCACCCAT
TGTGAGCTCTGCGCGCCAGGGTTCTACGGCCCCGGCTGCCAGCCCTGCCAGTGTTCAGCCCTGGAGTGGCCGAT
GACCGCTGTGACCCTGACACAGGCCAGTGCAGGTGCCAGTGGGCTTCGAGGGGGCCACATGTGATCGCTGTGCC
CCCGGCTACTTTCACTTCCCTCTCTGCCAGTTGTGTGGCTGCAGCCCTGCAGGAACCTTGCCGAGGGGCTGCGAT
GAGGCCGGCCGCTGCCTATGCCAGCCTGAGTTTGTGTGGCTGCAGCCCTGCAGGAACCTTGCCGAGGGGCTGCGAT
TTCCCCAACTGCCAAGCATGCACCTGCGACCCCTCGGGGAGCCCTGGACCAGCTCTGTGGGGCGGGAGGTTTGTGC
CGCTGCCGCCCCGGCTACACAGGCACTGCCTGCCAGGAATGCAGCCCCGGCTTTCACGGCTTCCCCAGCTGTGTC
CCCTGCCACTGCTCTGCTGAAGGCTCCCTGCACGCAGCCTGTGACCCCGGAGTGGGCAGTGCAGCTGCCGGCCC
CGTGTGACGGGGCTGCGGTGTGACACATGTGTGCCCGGTGCCTACAACCTCCCCCTACTGCGAAGCTGGCTCTTGC
CACCTGCGGGTCTGGCCCCAGTGGATCTGCCCCCTTCTGAGGCACAGGTTCCCTGTATGTGCCGGGCTCACGTG
GAGGGGCCGAGCTGTGACCGCTGCAAACCTGGGTTCTGGGGACTGAGCCCCAGCAACCCCGAGGGCTGTACCCGC
TGCAGCTGCGACCTCAGGGGCACACTGGGTGGAGTTGCTGAGTGCCAGCCGGGCACCGGCCAGTGTCTTGTCAAG
CCCCACGTGTGCGGCCAGGCCTGCGCGTCTGCAAGGATGGCTTCTTTGGACTGGATCAGGCTGACTATTTTGGC
TGCCGAGCTGCCGGTGTGACATTGGCGGTGCACTGGGCCAGAGCTGTGAACCGAGGACGGGCGTCTGCCGGTGC
CGCCCCAACACCCAGGGCCCCACCTGCAGCGAGCCTGCGAGGGACCACTACCTCCCGGACCTGCACCACCTGCGC
CTGGAGCTGGAGGAGGCTGCCACACCTGAGGGTCACGCCGTGCGCTTTGGCTTCAACCCCTCGAGTTCGAGAAC
TTCAGCTGGAGGGGCTACGCGCAGATGGCACCTGTCCAGCCAGGATCGTGGCCAGGCTGAACCTGACCTCCCT
GACCTTTTCTGGCTCGTCTTCCGATACGTCAACCGGGGGGCCATGAGTGTGAGCGGGCGGGTCTCTGTGCGAGAG
GAGGGCAGGTGCGCCACCTGCGCCAACTGCACAGCACAGAGTCAGCCCGTGGCCTTCCACCCAGCACGGAGCCT
GCCTTCATCACCGTGCCCCAGAGGGGCTTCGGAGAGCCCTTTGTGCTGAACCTTGGCACCTGGGCCCTGCGTGTG
GAGGCCGAAGGGGTCTCTGGACTACGTGGTTCTGCTGCTAGCGCATACTACGAGGCGGCGCTCTGACAGCTG
CGGGTGCATGAGGCTGCACATACCGTCCCTCTGCCAGCAGTGTGGCGACAACCTGCTCTTACACACACCTC
CCCTGGATGGCTTCCCTCGGCCCGGGCTGGAGGCCCTGTGTGCGCAGGACAACAGCCTGCCCCGGCCCTGCG
CCCACGGAGCAGCTCAGCCGTCGACCCGCCACCTGATCACCTGCACGGGCAGTGATGTGGACGTCCAGCTTCAA
GTGGCAGTGCCACAGCCAGGCCGCTATGCCCTAGTGGTGGAGTACGCCAATGAGGATGCCCGCCAGGAGGTGGGC
GTGGCCGTGCAACCCACAGCGGGCCCCCAGCAGGGGCTGTCTCCCTGCACCCCTGCTGTACAGCACCCCTG
TGCCGGGGCACTGCCCGGGATACCCAGGACCACCTGGCTGTCTTCCACCTGGACTCGGAGGCCAGCGTGAGGCTC
ACAGCCGAACAGGCACGCTTCTTCTGACGGGGTCACTCTGGTGCCATTGAGGAGTTACAGCCCGAGTTCTGTG

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FIGURE 5846B

GAGCCCCGGGTCAGCTGCATCAGCAGCCACGGCGCCTTTGGCCCCAACAGTGCCGCCTGTCTGCCCTCGCGCTTC
CCAAAGCCGCCCCAGCCCATCATCTCAGGGACTGCCAGGTGATCCCGCTGCCGCCCGGCTCCCGCTGACCCAC
GCGCAGGATCTCACTCCAGCCATGTCCCAGCTGGACCCGACCTCGGCCCCACCGCTGTGGACCTGATGCA
GAGCCACCCCTGCTGCGTGAGCCCCAGGCCACCGTGGTCTTACCACCCATGTGCCACGCTGGGCCGCTATGCC
TTCTGTCTGCACGGCTACCAGCCAGCCACCCACCTTCCCGTGGAAGTCTCATCAACGCCGGCCGCTGTGG
CAGGGCCACGCCAACGCCAGCTTCTGTCCACATGGCTACGGCTGCCGCACCCTGGTGGTGTGTGAGGGCCAGGCC
CTGTGGACGTGACCCACAGCGAGCTCACTGTGACCGTGCGTGTGCCAAGGGCCGGTGGCTCTGGCTGGATTAT
GTACTCGTGGTCCCTGAGAACGTCTACAGCTTTGGCTACCTCCGGGAGGAGCCCTGGATAAATCTATGACTTC
ATCAGCCACTGCGCAGCCAGGGCTACCACATCAGCCCCAGCAGCTCATCCCTGTTCTGCCGAAACGCTGCTGCT
TCCCTCTCCCTCTTCTATAACAACGGAGCCCGTCCATGTGGCTGCCACGAAGTAGGTGCTACAGCCCCACGTGT
GAGCCCTTCGGGGGCCAGTGTCCCTGCCATGCCATGTGATTGGCCGTGACTGCTCCCGCTGTGCCACCGGATAC
TGGGGCTTCCCCAACTGCAGGCCCTGTGACTGCGGTGCCCGCTCTGTGACGAGCTCACGGGCCAGTGCACTGTC
CCGCCACGCACCATCCCCGCCGACTGCCTGCTGTGCCAGCCCCAGACCTTTGGCTGCCACCCCTGGTTCGGCTGT
GAGGAGTGTAAGTGTCTCAGGGCCCGCATCCAGGAGCTCACAGACCTACCTGTGACACAGACAGCGGCCAGTGC
AAGTGCAGACCCAACGTGACTGGGCGCCGCTGTGATACCTGCTCTCCGGGCTTCCATGGCTACCCCCGCTGCCGC
CCCTGTGACTGTACAGAGGCGGGCACTGCGCCTGGCGTGTGTGACCCCTCACAGGGCAGTGCTACTGTAAGGAG
AACGTGCAGGGCCCCAAATGTGACAGTGCAGCCTTGGGACCTTCTCACTGGATGCTGCCAACCCCAAAGGTTGC
ACCCGCTGCTTCTGCTTTGGGGCCACGGAGCGCTGCCGGAGCTCGTCCTACACCCGCCAGGAGTTCTGTGGATATG
GAGGGATGGGTGCTGCTGAGCACTGACCGGCAGGTGGTGCCCCACGAGCGGCAGCCAGGGACGGAGATGCTCCGT
GCAGACCTGCGGCACGTGCCTGAGGCTGTGCCCGAGGCTTTCCCGAGCTGTACTGGCAGGCCCCACCTCTCTAC
CTGGGGGACCGGGTGTATCTACGGTGGGACCTCCGTTATGAACTGCACTCAGAGACCCAGCGGGGAGATGTC
TTTGTCCCCATGGAGAGCAGGCCGGATGTGGTGTGTCAGGGCAACCAGATGAGCATCACATTCTGGAGCCGGCA
TACCCACGCCTGGCCACGTTACCGTGGGCAGCTGCAGCTGGTGGAGGGGAACCTCCGGCATACGGAGACGCGC
AACACTGTGTCCCGCAGGAGCTCATGATGGTGTGTCAGCCTGGAGCAGCTGCAGATCCGTGCCCTCTTCTCA
CAGATCTCTCGGCTGTCTTCTGCGCAGGGTGGCACTGGAGGTGGCCAGCCAGCAGGCCAGGGGGCCCTGGCC
AGCAATGTGGAGCTGTGCCTGTGCCCCGCCAGCTACCGGGGGGACTCATGCCAGGAATGTGCCCCCGGCTTCTAT
CGGGACGTCAAAGGTCTCTTCTGGGCCGATGTGTCCCTTGTGAGTGCCATGGCACTCAGACCGCTGCCTCCCT
GGCTCTGGCGTCTGTGTGGACTGCCAGCACAAACCCGAAGGGGGCCACTGTGAGCGCTGCCAGGCTGGCTTCGTG
AGCAGCAGGGACGACCCAGCGCCCCCTGTGTGAGCTGCCCTGCCCTCTCAGTGCCCTTCAACAACCTTCGCC
GAGGGCTGTGTCTGCGAGGCGGCCGCCACCCAGTGCCTCTGCAAACCTGGTTATGCAGGTGCCTCTGCGAGCGG
TGTGCGCCCGGATTCTTTGGGAACCCACTGGTGTGTCAGGAGCTCCTGCCAGCCATGCGACTGCAGCGGCAACGGT
GACCCCAACTTGCTCTTCAGCGACTGCGACCCCTGACGGGCGCTGCCGTGGCTGCCTGCGCCACACCACTGGG
CCCGCTGCGAGATCTGTGCCCCGGCTTCTACGGCAACGCCCTGCTGCCCGCAACTGCACCCGGTGCAGCTGT
ACCCCATGTGGGACAGAGGCTGCGACCCCCACAGCGGCACTGCGCTGTGCAAGGCGGGCGTGAAGTGGGCGGCG
TGTGACCGCTGCCAGGAGGGACATTTTGGTTTCGATGGCTGCGGGGGCTGCCGCCGTGTGCTTGTGGACCGGCC
GCCGAGGGCTCCGAGTGCCACCCCCAGAGCGGACAGTGCCACTGCCGACCAGGGACCATGGGACCCAGTGCCGC
GAGTGTGCCCCCTGGCTACTGGGGGCTCCCTGAGCAGGGCTGCAGGCGCTGCCAGTGCCCTGGGGGCGCTGTGAC
CCTCACACGGGCGGCTGCAACTGCCCCCCGGGGCTCAGCGGGGAGCGCTGCGACACCTGCAGCCAGCAGCATCAG
GTGCTGTTCAGGCGGGCCTGTGGGCCACAGCATCCACTGTGAAGGTTGTGTGACCACTGTGTGGTCTCTGCTCC
TGGATGACCTGGAACGGGCCGGCGCCCTCCTCCCGCCATTACAGAGCAACTGCGTGCCATCAATGCCAGCTCCA
TGGCTGGGCGCGTCTGCACAGGCTGAACGCCTCCATCGCTGACCTGCAGAGCCAGCTCCGGAGCCCCCTGGGCC
CCCGCCATGAGACGGCACAGCAGCTGGAGGTGTGGAGCAGCAGAGCACAAGCTCGGGCAGGACGCACGGCGGC
TAGGCGGCCAGGCCGTGGGGACCCGAGACCAGGCGAGCCAATTGCTGGCCGGCACCGAGGCCACACTGGGCCATG
CGAAGACGCTGTTGGCGGCCATCCGGGCTGTGGACCGCACCTGAGCGAGCTCATGTCCAGACGGGCCACCTGG
GGCTGGCCAATGCCTCGGCTCCATCAGGTGAGCAGCTGCTCCGGACACTGGCCGAGGTGGAGCGGCTGCTCTGGG
AGATGCGGGCCCGGACCTGGGGGCCCCGAGGCAGCAGCTGAGGCTGAGTTGGCTGCAGCACAGAGATTGCTGG
CCCGGGTGCAGGAGCAGCTGAGCAGCTCTGGGAGGAGAACCAGGCACTGGCCACACAAACCCGCGACCGGCTGG
CCCAGCACGAGGCCGGCCTCATGGACCTGCGAGAGGCTTTGAACGGGCAGTGACGCCACACGGGAGGCCAGG

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FIGURE 5846C

AGCTCAACAGCCGCAACCAGGAGCGCCTGGAGGAAGCCCTGCAAAGGAAGCAGGAGCTGTCCCGGGACAATGCCA
CCCTGCAGGCCACTCTGCATGCGGCTAGGGACACCCCTGGCCAGCGTCTTCAGATTGCTGCACAGCCTGGACCAGG
CTAAGGAGGAGCTGGAGCGCCTCGCCGCCAGCCTGGATGGGGCTCGGACCCCACTGCTGCAGAGGATGCAGACCT
TCTCCCCGGCGGGCAGCAAGCTGCGTCTAGTGGAGGGCCGCCAGGCCACGCACAGCAGCTGGGCCAGCTGGCAC
TCAATCTGTCCAGCATCATCTGGACGTCAACCAGGACCGCCTCAGCCAGAGGGCCATCGAGGCCTCCAACGCCT
ACAGCCGCATCCTGCAGGCCGTGCAGGCTGCCGAGGATGCTGCTGGCCAGGCCCTGCAGCAGGCGGACCACACGT
GGGCGACGGTGGTGGCGGAGGGCCTGGTGGACCGAGGCCAGCAGCTCCTGGCCAACAGCACTGCACTAGAAGAGG
CCATGCTCCAGGAACAGCAGAGGCTGGGCCTTGTGTGGGCTGCCCTCCAGGGTGCCAGGACCCAGCTCCGAGATG
TCCGGGCAAGAAGGACCAGCTGGAGGCGCACATCCAGGCGGCGCAGGCCATGCTTGCCATGGACACAGACGAGA
CAAGCAAGAAGATCGCACATGCCAAGGCTGTGGCTGCTGAAGCCCAGGACACCGCCACCCGTGTGCAGTCCCAGC
TGCAGGCCATGCAGGAGAATGTGGAGCGGTGGCAGGGCCAGTACGAGGGCCTGCGGGGCCAGGACCTGGGGCCAGG
CAGTGCTTGACGCAGGCCACTCAGTGTCCACCCTGGAGAAGACGCTGCCCCAGCTGCTGGCCAAGCTGAGCATCC
TGGAGAACCCTGGGGTGCAACGCCAGCCTGGCCCTGTCCGCCAGCATTGGCCGCGTGCGAGAGCTCATTGCCC
AGGCCCCGGGGGGCTGCCAGTAAGGTCAAGGTGCCCATGAAGTTCAACGGGCGCTCAGGGGTGCAGCTGCGCACCC
CACGGGATCTTGCCGACCTTGCTGCCTACACTGCCCTCAAGTTCTACCTGCAGGGCCCCAGAGCCTGAGCCTGGGC
AGGGTACCGAGGATCGCTTTGTGATGTACATGGGCAGCCGCCAGGCCACTGGGGACTACATGGGTGTGTCTCTGC
GTGACAAGAAGGTGCACTGGGTGTATCAGCTGGGTGAGGCGGGCCCTGCAGTCTAAGCATCGATGAGGACATTG
GGGAGCAGTTTCGAGCTGTGAGCCTGGACAGGACTCTCCAGTTTGGCCACATGTCCGTTCAGTGGAGAGACAGA
TGATCCAGGAAACCAAGGGTGACACGGTGGCCCCCTGGGGCAGAGGGGCTGCTCAACCTGCGGCCAGACGACTTCG
TCTTCTACGTGCGGGGGTACCCAGTACCTTCACGCCCCCTCCCTGCTTCGCTTCCCCGGCTACCGGGGGCTGCA
TCGAGATGGACACGCTGAATGAGGAGGTGGTCAGCCTCTACAACCTCGAGAGGACCTTCCAGCTGGACACGGCTG
TGGACAGGCCTTGTGCCCCGCTCCAAGTCGACCGGGGACCCGTGGCTCACGGACGGCTCCTACCTGGACGGCACCG
GCTTCGCCCCGATCAGCTTCGACAGTCAGATCAGCACCACCAAGCGCTTCGAGCAGGAGCTGCGGCTCGTGTCTT
ACAGCGGGGTGCTCTTCTTCTGAAGCAGCAGAGCCAGTTCTGTGCTTGGCCGTGCAAGAAGGCAGCCTCGTGC
TGTTGTATGACTTTGGGGCTGGCCTGAAAAAGGCCGTCCCACTGCAGCCCCCACCGCCCTGACCTCGGCCAGCA
AGGCGATCCAGGTGTTCTGCTGGGGGGCAGCCGCAAGCGTGTGCTGGTGGTGGAGCGGGCCACGGTGTACA
GCGTGGAGCAGGACAATGATCTGGAGCTGGCCGACGCCTACTACCTGGGGGGCGTGCCGCCCGACAGCTGCCCC
CGAGCCTGCGACGGCTCTTCCCCACCGGAGGCTCAGTCCGTGGCTGCGTCAAAGGCATCAAGGCCCTGGGCAAGT
ATGTGGACCTCAAGCGGCTGAACACGACAGGCGTGAGCGCCGGCTGCACCGCCGACCTGCTGGTGGGGCGCGCCA
TGACTTTCCATGGCCACGGCTTCTTCGCTGGCGCTCTCGAACGTGGCACCGCTCACTGGCAACGTCTACTCCG
GCTTCGGCTTCCACAGCGCCCAGGACAGTGCCCTGCTCTACTACCGGGCGTCCCCGGATGGGCTATGCCAGGTGT
CCCTGCAGCAGGGCCGTGTGAGCCTACAGTCTCTGAGGACTGAAGTGAAGTCAAGCGGGCTTCGCGGATGGTG
CCCCCATACGTGCGCTTCTACAGCAATGCCACGGGAGTCTGGCTGTATGTCGATGACAGCTCCAGCAGATGA
AGCCCCACCGGGGACACCCCCGAGCTCCAGCCGCAGCCTGAGGGGCCCCGAGGCTCCTCCTGGGAGGCCTGC
CTGAGTCTGGCACCATTTACAACCTCAGTGGCTGCATCAGCAACGTCTTCGTGCAGCGGCTCCTGGGCCACAGC
GCGTATTTGATCTGCAGCAGAACCTGGGCAGCGTCAATGTGAGCACGGGCTGTGCACCCGCCCTGCAAGCCCAGA
CCCCGGGCTGGGGCCTAGAGGACTGCAGGCCTCCGCGCGAGCCGTACGCCGCCCGGCATCCTGCCTGCATGC
TGCCCCACACCTCAGGACCACCCGAGACTCCTACCAGTTTGGGGGTTCCTGTCCAGTACCTGGAGTTTGTGG
GCATCCTGGCCCCGACATAGGAACCTGGCCAGTCTCTCCATGCAGCTCCTCCGCGAAGCTCCCGAGGCCTCCTCC
TCTTCACTGCCCCGTCTGAGGCCCGGCGAGCCCTCCTGGCGCTCTTCTGAGCAATGGCCACTTCGTTGCACAGA
TGAAGGCCTCGGGACTCGGCTCCGCGCCAGAGCCGCCAGCGCTCCCGGCTGGCGCTGGCACAAGGTCTCCG
TGCGCTGGGAGAAGAACCGGATCCTGCTGGTGCAGGACGGGGCCCGGGCCTGGAGCCAGGAGGGGCGCACCGGC
AGCACCAGGGGGCAGAGCACCCCCAGCCCCACACCCTCTTTGTGGCGGCTCCCGGCCAGCAGCCACAGCTCCA
AACTTCCGGTGACCGTGGGGTTAGCGGCTGTGTGAAGAGACTGAGGCTGCACGGGAGGCCCCCTGGGGGCCCCCA
CACGGATGGCAGGGGTACACCCCTGCATCTTGGGCCCTGGAGGCGGGCCTGTCTTCCAGGCAGCGGGGGAG
TTATCACTTTAGACCTCCCAGGAGCTACACTGCCTGATGTGGGCTGGAACCTGGAGGTGCGGCCCCCTGGCAGTCA
CCGGACTGATCTTCACTTGGGCCAGGCCCCGACGCCCCCTACTTGAGTTGCAGGTGACCGAGAAGCAAGTCC
TGCTGCGGGCGGATGACGGAGCAGGGGAGTTCTCCAGTCACTGACCGCCCCCTCAGTGCTGTGTGATGGCCAGT

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FIGURE 5846D

GGCACCGGCTAGCGGTGATGAAAAGCGGGAATGTGCTCCGGCTGGAGGTGGACGCGCAGAGCAACCACACCGTGG
GCCCCTTGCTGGCGGCTGCAGCTGGTGCCCCAGCCCCCTCTGTACCTCGGGGGCCTGCCTGAGCCCATGGCCGTGC
AGCCCTGGCCCCCGCCTACTGCGGCTGCATGAGGAGGCTGGCGGTGAACCGGTCCCCCGTCGCCATGACTCGCT
CTGTGGAGGTCCACGGGGCAGTGGGGGCCAGTGGCTGCCAGCCGCCTAGGACACAGCCAACCCGGCCCCCTGGT
CAGGCCCCCTGCAGCTGCCTCACACCGCCCCCTTGTGCTCGCCTCATAGGTGTCTATTTGGACTCTAAGCTCTACGG
GTGACAGATCTTGTTCCTGAAGATGGTTTAAGTTATAGCTTCTTAAACGAAAGAATAAAATACTGCAAAATGTTT
TTATATTTGGCCCTTCCACCCATTTTAAATTGTGAGAGATTGTACCAATCATCACTGGTTCCTCCTTAAAAAT
TAAAAAGTAACTTCTGTGT

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FIGURE 5847

CTTTCTCTCTCGCGCGGGTGTGGTGGCAGCAGGCGCAGCCCAGCCTCGAAATGCAGAACGACGCCGGCGAGTTC
GTGGACCTGTACGTGCCGCGGAAATGCTCCGCTAGCAATCGCATCATCGGTGCCAAGGACCACGCATCCATCCAG
ATGAACGTGGCCGAGGTTGACAAGGTCACAGGCAGGTTTAAATGGCCAGTTTAAACTTATGCTATCTGCGGGGCC
ATTCGTAGGATGGGTGAGTCAGATGATTCCATTCTCCGATTGGCCAAGGCCGATGGCATCGTCTCAAAGAACTTT
TGACTGGAGAGAATCACAGATGTGGAATATTTGTCATAAATAAATAATGAAAACCT

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FIGURE 5848

MQNDAGEFVDLYVPRKCSASNRIIGAKDHASIQMNVAEVDKVTGRFNGQFKTYAICGAIRRMGESDDSI LRLAKA
DGIVSKNF

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FIGURE 5849

AGTGCGCCTGCGCGGAGCTCGTGGCCGCGCCTGCTCCCGCCGGGGGCTCCTTGCTCGGCCGGGCGCGGCC**ATGG**
GAGAGGCCGAGGTGGGCGGCGGGGCGCCGCAGGCGACAAGGGCCCGGGGGAGGCGGCCACCAGCCCGCGGAGG
AGACAGTGGTGTGGAGCCCCGAGGTGGAGGTGTGCCTCTTCCACGCCATGCTGGGCCACAAGCCGTCGGTGTGA
ACCGACACTTCCACATGATTTGTATTGGGACAAGTTCAGCCAGAACATCGGGCGGCAGGTCCCATCCAAGGTCA
TCTGGGACCATCTGAGCACCATGTACGACATGCAGGCGCTGCATGAGTCTGAGATTCTTCCATTCCCGAATCCAG
AGAGGAACTTCGTCTTCCAGAAGAGATCATTAGGAGGTCCGAGAAGGAAAAGTGATGATAGAAGAGGAGATGA
AAGAGGAGATGAAGGAAGACGTGGACCCCCACAATGGGGCTGACGATGTTTTTTCATCTTCAGGGAGTTTGGGGA
AAGCATCAGAAAAATCCAGCAAAGACAAAGAGAAGAACTCCTCAGACTTGGGGTGCAAAGAAGGCGCAGACAAGC
GGAAGCGCAGCCGGGTACCGACAAAGTCCTGACCGCAAACAGCAACCCTTCCAGTCCCAGTGCTGCCAAGCGGC
GCCGCACGT**TAG**ACCCTCAGCCCTGGTGGCGGCAGAGAAGCGGGCGAGGCACGTGTGGTCGCTGAGGGGGTTGGCTG
GGTCTGAGTGCCACCCCCCAGGCCACAGTGATACCATCCAGTGCCATGAGCCCACACTGCCCGCCCTCAGGCTC
TCAGGTGAACGTGGCCGTGAGCGGGGAAACGTGTGTGTGTCAGTTGGACCATGTGGGACCCCGATGGACCTGAAAGA
CCAGGATCGGTCCAGCTCAGATATTGAGGGCTCTGAAGCCTAGTTCTGTCTTCTCTGGAGCAGCTGTGGCTTCCC
CGTGGCTGCTTGGTGACATGGATTAGCGCTACGTGGGCTGCAGCATTGGGATCCAGGCTACCTAGAGGGGCATC
GGGCCAGGGAAAACCTCGGATTAGCAAGCAATAAAAAATATGACCTCACTCTTCTCAAAGGAGCCCCCTGGTCTTC
CCTGTGTGACTCAGTTCTTTCCATCTGTTTGTCCGCTGCAAGCCTCTTCTGCGCTGACTGTGACATCGGAACG
TGGCCTTCCCTGTACCCCCCTCCGTGCCACGCACTGAAGGCCACCCCAACCCTGGGAACTAAGAACTGGATA
TTTTGCCTCATTCACTTGTACTGTAACAATGTATATAATTTGGTTGGTATTTCACTATTTAATTTTAAAGAGCC
TATTTTACTAGTGTTTTATATGAACAAAGTACTGCAGAAGTTAAACCTGTGTGTATTTTTTCTGAGATGTTTTG
CTTTAAGAGATACTTTTTGCTCAGTTTTTATATGCCAGATACAGAGAATTTGTAGCGGTATTTTTTGTATGATC
TAGTAACTTGCAAACAGACCAAATGGATGAGAGGCGGGGACCGTGACGTGTCGGCTGATGAGGAGGCGGCCGCC
CCAGTGCTGATGGAGATGCCACTTTCGTGTGACTGCGAACATTAAGCACAAAAAATCC

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FIGURE 5850

MGEAEVGGGAAGDKGPGEAATSPAETVVWSPEVEVCLFHAMLGHKPVGVNRHFHMICIRDKFSQNIGRQVPSK
VIWDHLSTMYDMQALHESEILPFPNPERNFVLPEEIIQEVREGKVMIEEEMKEEMKEDVDPHNGADDVFSSSGSL
GKASEKSSKDKEKNSSDLGCKEGADKRKRSRVTDKVLANSNPSSPSAAKRRRT

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FIGURE 5851

CCCCGCCGCCGCCGAGCATGGACGACCCCGACTGCGACTCCACCTGGGAGGAGGACGAGGAGGATGCGGAGGACGC
GGAGGACGAGGACTGCGAGGACGGCGAGGCCCGCGCGAGGGACGCGGACGCAGGGGACGAGGACGAGGAGTC
GGAGGAGCCCGCGGGCGGGCGCGGCCAGCTCGTTCCAGTCCAGAATGACAGGGTCCAGAACTGGCGAGCCACGAG
GGACATGTGTAGGTATCGGCACAACCTATCCGGATCTGGTGGAACGAGACTGCAATGGGGACACGCCAAACCTGAG
TTTCTACAGAAATGAGATCCGCTTCCTGCCCCAACGGCTGTTTCATTGAGGACATTCTTCAGAACTGGACGGACAA
CTATGACCTTCCTTGAGGACAATCACTCCTACATCCAGTGGCTGTTTCCTCTGCGAGAACCAGGAGTGAACCTGGCA
TGCCAAGCCCCCTCACGCTCAGGGAGGTGAGGTTGTTTAAAGCTCCCAGGAGATCCAGGAGCGGCTTGTCGGGGC
CTACGAGCTCATGCTGGGCTTCTACGGGATCCGGCTGGAGGACCGAGGCACGGGCACGGTGGGCCGAGCACAGAA
CTACCAGAAGCGCTTCCAGAACCTGAACTGGCGCAGCCACAACAACCTCCGCATCACACGCATCCTCAAGTCGCT
GGGTGAGCTGGGGCTTCGAGCATTCCAGGCGCCGCTGGTCCGCTTCTTCCTGGAGGAGACGCTGGTGCGGCGGGA
GCTGCCGGGGGTGCGGCAGAGTGCCCTGGACTACTTCAITGTTTCGCCGTGCGCTGCCGACACCAGCGCCGCCAGCT
GGTGCACTTCGCTGGGAGCATTCCGGCCCCGCTGCAAGTTCGTCTGGGGGCCCAAGACAAGCTGCGGAGGTT
CAAGCCCAGCTCTCTGCCCCATCCGCTCGAGGGCTCCAGGAAGGTGGAGGAGGAAGGAAGCCCCGGGGACCCCGA
CCACGAGGCCAGCACCCAGGGTCGGACCTGTGGGCCAGAGCATAGCAAGGTGGGGGCAGGGTGGACGAGGGGCC
CCAGCCACGGAGCGTGGAGCCCCAGGATGCGGGACCCCTGGAGAGGAGCCAGGGGGATGAGGCAGGGGGCCACGG
GGAAGATAGGCCGGAGCCCTTAAGCCCCAAAGAGAGCAAGAAGAGGAAGCTGGAGCTGAGCCGGCGGGAGCAGCC
GCCACAGAGCCAGGCCCTCAGAGTGCCTCAGAGGTGGAGAAGATCGCTCTGAATTGGAGGGGTGTGCCCTCAG
CCAGGGCAGCCTCAGGACGGGGACCCAGGAAGTGGGCGGTGAGGACCTGGGGAGGCAGTGACGCCCTGCCGCCA
ACCCCTGGGAGCCAGGGTGGCCGACAAGGTGAGGAAGCGGAGGAAGGTGGATGAGGGTGCTGGGGACAGTGCTGC
GGTGGCCAGTGGTGGTGCCAGACCTTGGCCCTTGCCGGGTCCCCTGCCCATCGGGGCACCCCAAGGCTGGACA
CAGTGAGAACGGGGTTGAGGAGGACACAGAAGGTGCAACGGGGGCCAAAGAAGGTACCCCTGGGAGCCCATCGGA
GACCCAGGCCCCAGCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCCG
CCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCCGCCGGCAGGACCTGC
AGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCAGCCGGCAGGACCTACAAGGGATGAGCCAGC
CGAGAGCCCATCGGAGACCCAGGCCCCCGCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGA
GACCCAGGCCCCCGCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCAG
CCGGCAGGACCTACAAGGGATGAGCCAGCCAAGGCGGGGAGGCAGCAGAGTTGCAGGACGCAGAGGTGGAGTC
TTCTGCCAAGTCTGGGAAGCCTTAAGGAAGGAGTGCCCGTCGGCGTCTTGGTCTCTGTCCCTGCTGCAGGGG
CTGGGGCTCCGGAGCTGCTGCGGGCTCCCCTCAGGCTCTGCTTCGTGACCCGTGACCCATGACCCACAGTGCTG
GCCTCCTGTGGGGCCACTATAGCAGCCACCAGAAGCCGCGAGGCCCTCAGGGAAGCCCAAGGCCTGCAGAAGCCT
CCTGGCCTGGCTGTGTCTTCCCCACCCAGCTCTCCCCTGCGCCCTGTCTTTGTAAATTGACCCCTCTGGAGTGG
GGGCGGGCGGGCAGGGCTGCTTTTCTTAGTCTGATACCAAGCAAGGCCTTTTCTGAATAAATTCAATTGACTTG

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FIGURE 5852

MDDPDCDSTWEEDEEDAEDAEDCEDGEEAAGARDADAGDEDEESEEPRAARPSFQSRMTGSRNWRATRDMCRY
RHNYPDIVERDCNGDTPNLSFYRNEIRFLPNGCFIEDILQNWTDNYDLLEDNHSYIQWLFFLREPGVNWHAHAKPLT
LREVEVFKSSQEIQERLVRAYELMLGFYGRLEDRTGTGTGRAQNYQKRFQNLNWRSHNNLRITRILKSLGELGL
EHFQAPLVRFFLEETLVRRELPGVRQSALDYFMFAVRCRHQRRQLVHFAWEHFRPRCKFVWGPQDKLRRFKPSSL
PHPLEGSRKVEEEGSPGDPDHEASTQGRTCGPEHSKGGGRVDEGPQPRSVEPQDAGPLERSQGDEAGGHGEDRPE
PLSPKESKKRKLKLSRREQPPTEPGQSASEVEKIALNLEGCALSQGSRLTGTQEVGGQDPGEAVQPCROPLGAR
VADKVRKRRKVDEGAGDSAAVASGGAQTLALAGSPAPSGHPKAGHSENGVEEDTEGRTGPKEGTPGSPSETPGPS
PAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAESPSE
TPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAKAGEAAELQDAEVESAKSG
KP

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FIGURE 5853

CCGACGCCGCAGCTCAGACTCCGCTCAGCCATGGCCGGGCCGCGCGCGTGCGCCCGCTCCTGCTCCTGCTCCTG
CTCGGGGAGCTTCTGGCGGCCGCCGGGGCGCAGAGAGTGGGACTCCCCGGCCCCCGGGCCCCCAGGGCCGCCC
GGCAAGCCCGGCCAGGACGGCATTGACGGAGAAGCTGGTCTCCAGGTCTGCCTGGGCCCGGGACCAAAGGGG
GCCCCAGGAAAGCCGGGGAAACCAGGAGAGGCTGGGCTGCCGGGACTGCCGGGTGTGGATGGTCTGACTGGACGA
GATGGACCCCTGGACCCAAGGGTGGCCCTGGGGAAACGGGGAAGTCTGGGACCCCGGGGCCCGCCGGGCTGGGG
GGCAAAGGCCTCCTGGACCCCGGAGAGGCAGGAGTGAGCGGCCCGCCAGGTGGGATCGGCCTCCGCGGCCCG
CCGGGACCTCCTGGACTCCCGGCCCTCCTGGTCCCCAGGACCTCCCGGACCCCTGGACACCCAGGAGTTCTC
CCTGAAGGCGCTACTGACCTTCAGTGCCCAAGTATCTGCCCGCCAGGTCCCCAGGGCCCCCTGGAATGCCAGGG
TTCAAGGGACCCACTGGCTACAAAGGCGAGCAGGGGGAAGTCGGCAAGGACGGCGAGAAGGGTGACCCTGGCCCC
CCTGGGCCCCGCGGCCTCCCGGGCAGCGTGGGGCTGCAGGGCCCCCGGGGATTACGAGGACTGCCAGGGCCACTC
GGGCCCCCTGGGGACCGGGTCCATTGGGTTCCGAGGGCCGCCCTGGGATCCAGGAGCGCCTGGGAAAGCGGGT
GACCGAGGCGAGAGGGGCCAGAAGGGTTCCGCGGCCCAAGGGTGACCTCGGCAGACCTGGTCCCAAGGGAACC
CCCGGAGTGGCCGGGCCAAGCGGAGAGCCGGGCATGCCGGGCAAGGACGGCCAGAATGGCGTGCCAGGACTCGAT
GGCCAGAAGGGAGAGGCTGGTTCGCAACGGTGCTCCGGGAGAGAAGGGCCCCAACGGGCTGCCGGGCCTCCTTGA
CGAGCGGGGTCCAAAGGCGAGAAGGGAGAACGGGGCAGAGCTGGGGAGCTGGGTGAGGCCGGCCCCCTCTGGAGAG
CCAGGCGTCCCTGGAGATGCTGGCATGCCTGGGGAGCGCGGTGAGGCTGGCCACCGGGGCTCAGCGGGGGCCCTC
GGCCCACAAGGCCCTCCCGGAGCCCCCTGGTGTCCGAGGCTTCCAGGGCCAGAAGGGCAGCATGGGAGACCCCGGC
CTTCCAGGCCCCCAGGGCCTCCGAGGTGACGTGGGCGACCGGGGTCCGGGAGGTGCCCGAGGCCCTAAGGGAGAC
CAGGGTATTGCAGGTTCCGACGGTCTTCTGGGGATAAAGGAGAACTGGGTCCCAGCGGCCTGGTCCGACCCAAA
GGAGAGTCTGGCAGTCGAGGGGAGCTGGGCCCCAAAGGCACCCAGGGTCCCAACGGCACAGCGGTGTTTACGGGT
GTCCCCGGGCCCCCGGTCTCTGGGCCTGCAGGGCGTCCCGGGTGTCTCGGCATCACGGGGAAGCCGGGAGTT
CCGGGGAAGGAGGCCAGCGAGCAGCGCATCAGGGAGCTGTGTGGGGGGATGATCAGCGAACAATTGCACAGTTA
GCCGCGCACCTAAGGAAGCCTTTGGCACCCGGGTCCATTGGTTCGGCCCGGTCCAGCTGGCCCCCTGGGCCCCCA
GGACCCCGAGGCTCCATTGGTCACCCTGGCGCTCGAGGACCCCTGGATACCGCGGTCCCCTGGGGAGCTGGGA
GACCCCGGGCCAGAGGAAACCAGGGTGACAGAGGAGACAAAGGCGCGGCAGGAGCAGGGCTGGACGGGCCTGAA
GGAGACCAGGGGCCCCAAGGACCCCAAGGCGTGCCCGGCACCAGCAAGGACGGCCAGGACGGTGCTCCCGGCAG
CCTGGGCCTCCCGGAGATCCTGGGCTTCCAGGTGCCATTGGGGCCCAGGGGACACCGGGGATCTGCGACACCTCA
GCCTGCCAAGGAGCCGTGTTAGGAGGGGTCCGGGAGAAATCAGGCTCTCGAAGCTCATAAAATTCAACGTGAGGA
AGCAAGTGACAAGGACGCCCCGAAGCACAGTGACGGTCATGAAGGAGCGGGGTGTGGCAGGCGGGTGACGTCCA
GGAGAGGGAGCGCCCCCTGGCTGCCCCCTCGGCCCGGACTGGACGCGCGGGCCTTGCCAGCGAGCACCTCATCGG
GCTGTGCGCTGACAGCATACCTCAAAAGGCCCTAGCTAATAAACCTGTAAGCCCAGCATTTGAGAGAAGGTAGGG
TGTGTATATATAAAAGGTTGTGTACAACTCCACGAGGTGAAAAATATTAGTAACCTGTTTACATAGCATTTGTG
TAAAGACTATGATCTCATCCCAATAAAATGATATATTAAACCTTCAGATTAATGACTGGCTACAGAGTAACAAAA
AATAAAGAATTTAATGTACAGTAAATTCTCTCCCAT

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FIGURE 5854

MAGPRACAPLLLLLLGELLAAAGAQRVGLPGPPGPPGPPGKPGQDGDIDGEAGPPGLPGPPGPKGAPGKPGKPGE
AGLPGLPGVDGLTGRDGPFGPKGAPGERGSLGPPGPPGLGGKGLPGPPGEAGVSGPPGGIGLRGPPGPPGLPGLP
GPPGPPGPPGHFPGVLPEGATDLQCPSICPPGPPGPPGMPGFKGPTGYKGEQGEVVKDGEKGDPPGPPGAGLPGSV
GLQGPRGLRGLPGPLGPPGDRGPIGFRGPPGIPGAPGKAGDRGERGPEGFRGPKGDLGRPGPKGTPGVAGPSGEP
GMPGKDGQNGVPGLDGQKGEAGRNGAPGEKGPNGLPGLPGRAGSKGEKGERGRAGELGEAGPSGEPGVPGDAGMP
GERGEAGHRGSAGALGPQGGPGAPGVRGFQGGQKGSMDPGLPGPQGLRGDVGDGRGPGGAAGPKGDQGIAGSDGLP
GDKGELGPSGLVGPKGESGSRGELGPKGTQGPNGTSGVQGVPGPPGPLGLQGVPGVPGITGKPGVPKGKEASEQRI
RELCGGMISEQIAQLAAHLRKPLAPGSIGRPGPAGPPGPPGPPGSIHPPGARGPPGYRGPTGELGDPGPRGNQGD
RGDKGAAGAGLDGPEGDQGPQGPQGVPGTSGDKGQDGAPGEPGPPGDPGLPGAIGAQTGPGICDTSACQGAVLGGV
GEKSGSRSS

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FIGURE 5855

TCTAGCCCCGCGCCATCTCGGTGGCCGTCCGCCCACTCCGCGGCGTTCCGGGAAATGGCTGCGAGACCCTAGAGG
CCTGCGGCCTGCGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAAATACGAAGCCTGTTA
CTCGTGAACAGTGGCTGACAACAGTGTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAG
GGTTTTTGGTTGTATTTAGGATTTTCAGGGAAAAGTGTCCAAGCTTTTCAGTGTGAGAGCAGGTATGGACGACAAAG
GCGACCCGAGCAATGAGGAGGACCTAAGGCCATCAAACCCACCAGCAAAGAGTTCAGGAAAACATGGGGTTTTTC
GAAGGACCACTATCGCCAAGCGAGAGGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGC
AGCAGCTGGGCCTGTCCCTGCGGCGCAGTGGGAGGCGAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTCTTGACCA
TTGCGCGGCGCCGCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCCACGTCTTCCCCGCCA
CAGACGCCGAGACAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCA
CAGCTGTGAAGGAACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTG
ACAGCGATGGCCTGACCTTGAAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGC
CCCTGAAAGGGATCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGG
CCAGTGACACTGTGGAGGGCGTCCTGCCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCAGGCTG
GGAAAAGATGACAGAGAGAGTAAGTTGGAGGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGG
GCCGACCGAAGCCTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTGCGCCAGCCTCACAACAACA
GGTTTATGATTTGCTGTGACCGCTGTGAAGAATGGTTTCAITGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGA
GGCTTTTGGAAAGGAATGGGGAAGACTATATCTGCCCAAACCTGCACCATTTCTGCAAGTGACAGGATGAGACTCATT
CAGAAACGGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCATTGTACAAGTATAGGAA
CAATAGAGCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAAATCCAAGTGGCAAGA
AGAAACTCAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAAATGTATTGGCCCCGGGTGCTGTACCG
TGGCGCAGCCCCGACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGAGCGACAATGAAGTTTCTAA
GCTCAGGTAAAGAACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAAT
GCGGTGCTCAGGCAGGTATTAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAAAGAGACCACAGTGA
AGAAGGCAGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGT
GGGCGAGCGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCAGTGTGTATAAAAT
GTATGTATCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTTCTTTCTGGATAGCCATCCCTGGGCCTGTCCAG
GACTGGGAGTTGCAGCTTTGTGTAAAGCTGATCACAGACACCGGCTGCACCATCAGCGGGAAGCAGAGCCCATGT
CCAGGATGCCTCCTGTCTGCCCTGTGTCCATCCCTAGTCTGTCTAGGACTTCTGTCACTGTTTTCCAAAGCTGTAA
ACCTCACTGGTGAACGTTACCTTAATGATTGATTCTTTAATCTCTGTTTTCACTCTCAGGCTCTGGTAAGTATT
CGTATTCTCTTCATCCCAGTCTGATTGCATAGCCACACTGCCCGGCACGCCACATCCACCCCTGTCTGCACATGA
GTTGTTCTGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTT
CTTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTGTCATCTGATTTTCAGGTGTACATTTATTTTTGACTGGG
CAGATAGGGGATTTTTTTTTTCCATGTCCGATTACACGCTACACACCCACATGAACACATTGCAACTTCGAAG
GCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCCTGACCGCAGGACGCG
TGCCTTGGACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCA
TATCCTGCCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTGGTG
CAATTTTAATGTTTTCTTGTCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

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FIGURE 5856

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMFVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLPKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLENGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPDSVYCSNDCILKHAAATMKFLSSGKEQKPKPKKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETTVKKAVVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVGLLDPSRSFWIAIPWACPGLGVAALC

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FIGURE 5857

GGGAGCGGGAGGGCAGGCGCACCGGAGGCCGCCCTCAGCACCTCTCGCGACAGCAAGAGAGCGCGAGAGCGCGA
GCCGATGACCAATGAAGCGCCCCCGCGAGGGGGCGGGGCGGACGGCCTCCCGGAAGCGCGGAACCTCAGCTTCCG
TACTTGCGCAGAACTCCCCTCGCGGCGACACGCACTACGGGTTGGCGCCAGAGTCAAAAGGCGTCGGCCCTCTG
GCAAGATGGCTGCTGCGGAGGCGTTGGAGCGCGGAAATCTGGAACCGGGATGGCGACGTCTACACTGAGTCGGAG
GCGAAGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGA
ACAGTGGCTGACAACAGTGTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTTCGTCTGCCAGGGTTTTT
GTTGTATTATTAGGATTTTCAGGGAAAAGTGTCCAAGCTTTTCAGTGTGGAGCAGGTATGACGACAAAGGCGACCC
GAGCAATGAGGAGGCGACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTCAGGAAAACATGGGGTTTTTCGAAGGAC
CACTATCGCCAAGCGAGAGGGGCGAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCT
GGGCTGTCCCTGCGGCGCAGTGGGAGGCGAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTTCTGACCATTGCGCG
GCGCCGCGGCGAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCACGTCTGCCCGGCCACAGACGC
CGAGACAGCCTCCGAGGGGCGAGCTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCACAGCTGT
GAAGGAACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGA
TGGCTGACCTTGAAAGAGCTTCAGAATCGCCTTCGCGAGGAAGCGGGAACAGGAGCCCACTGAGAGGCCCTGAA
AGGGATCCAGAGTCGCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGGCCAGTGA
CACTGTGGAGGGCGTCTGCCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCAGGCTGGGAAAGA
TGACAGAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACC
GAAGCCTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACAGGTTTAT
GATTTGCTGTGACCGCTGTGAAGAATGGTTTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTT
GGAAAGGAATGGGGAAGACTATATCTGCCCAAACCTGCACCATTTCTGCAAGTGCAGGATGAGACTCATTAGAAAC
GGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGTACAAGTATAGGAACAATAGA
GCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGAAGAACT
CAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAATGTATTGGCCCCGGGTGCTGTACGTGGCGCA
GCCCCACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGCGAGCGACAATGAAGTTTCTAAGCTCAGG
TAAAGAACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAATGCGGTGC
TCAGGCAGGTATTAATAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGAAGAAGGC
AGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGTGGGCGAG
CGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCACGTGTTGTATAAATGTATGTA
TCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTTCTTTCTGGATAGCCATCCCTGGGCCGTGCCAGGACTGGG
AGTTGCAGCTTTGTGTAAAGCTGATCACAGACACCGGCTGCACCATCAGCGGGAAGCAGAGCCCATGTCCAGGAT
GCCTCCTGCTGCCCTGTGTCCATCCCTAGTCTGTGAGGACTTCTGTCTACTGTTTTCCAAAGCTGTAAACCTCAC
TGGTGAACGTTACCTTAATGATTGATTCTTTAATCTCTGTTTTCTACTCTCAGGCTCTGGTAAGTATTCGTATTC
TCTTCATCCAGTCTGATTGCATAGCCACACTGCCCCGCGACGCCACATCCACCCCTGTCTGCACATGAGTTGTTT
TGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTTCTTTTTT
ATGTTGTGGGAATCTTTGCAAGTTAGTGTGTCATCTGATTTTCAGGTGTACATTTATTTTTGACTGGGCAGATAG
GGGATTTTTTTTTTCCATGTCCGATTACACGCTACACACCCACATGAACACATTGAACTTCGAAGGCCACAC
ACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTACACCTAGAACACTGTCCTGACCGCAGGACGCGTGCCTTG
GACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCATATCCTG
CCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTGGTGCAATTTT
AATGTTTTCTTGTCTCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

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FIGURE 5858

MDDKGDP SNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMPVSLEDSGEPTSCPATDAETA SEG SVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEFHGD CVGIS
EARGRL LERNGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPDSVYCSNDCILKHAATMKFLSSGKEQKPKPKKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETT VKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVGLLDPSRSFWIAIPWACPGLGVAALC

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FIGURE 5859

GGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGAACAGT
GGCTGACAAACAGTGTTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAGGGTTTTTGTTG
TATTTAGGATTTTCAGGGAAAAAGTGTTCAAGCTTTTCAGTGTTGGAGCAGGTATGGACGACAAAGGCGACCCGAGCA
ATGAGGAGGCGACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTCAGGAAAACATGGGGTTTTTCGAAGGACCACTA
TCGCCAAGCGAGAGGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCTGGGCC
TGTCCTTGCGGCGCAGTGGGAGGCGAGCCCCAAGCGCACTGAGCGCGTGGAGCAGTTCCTGACCATTGCGCGGCGCC
GCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCCACGTCCTGCCCGGCCACAGACGCCGAGA
CAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCACAGCTGTGAAGG
AACGACCAGCCTCTTCTGAAAAGGTGAAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGATGGCC
TGACCTTGAAAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGCCCTGAAAGGGA
TCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGGCCAGTGACACTG
TGGAGGGCGTCTGCCAGTAAGCAGGAGCCGAGAACGATCAGGGGGTTGTGTCCCAGGCTGGGAAAGATGACA
GAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACCGAAGC
CTGAATGTGAGGGTTACGACCCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACAGGTTTATGATTT
GCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTTGAAAA
GGAATGGGGAAGACTATATCTGCCCAAAGTGCACCATTTCTGCAAGTGCAGGATGAGACTCATTGAGAAACGGCAG
ATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCATTGTACAAGTATAGGAACAATAGAGCAGA
AGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGAAGAAACTCAAGA
TCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAATGTATTGGCCCCGGGTGCTGTACGTGGCGCAGCCCCG
ACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGACGACAATGAAGTTTCTAAGCTCAGGTAAAG
AACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCAGTCTTCCGAAATGCGGTGCTCAGG
CAGGTATTAAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAAGAGACCACAGTGAAGAAGGCAGTGG
TGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGTGGGCGAGCGATC
ACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCAGTGTGTATAAATGCTCTGGTAAGT
ATTGATTTCTCTTATCCCAGTCTGATTGCATAGCCACACTGCCCCGGCACGCCACATCCACCCCTGTCTGCACA
TGAGTTGTTCTGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCA
CTTCTTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTGCATCTGATTTTCAGGTGTACATTTATTTTTGACT
GGGCAGATAGGGGATTTTTTTTTTCCATGTCCGATTACACGCTACACACCCACATGAACACATTCGAACCTTCG
AAGGCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCCTGACCGCAGGAC
GCGTGCCCTGGACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTGAATGTTTAGACTCTTAAGA
TCATATCCTGCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTG
GTGCAATTTAATGTTTTCTTGTTCCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

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FIGURE 5860

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMFVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNLRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLENGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPD SVYCSNDCILKHAAATMKFLSSGKEQKPKPKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETTVKKAVVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCSGKYSYSLHPSLIA

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FIGURE 5861

GGAAGCTGGTGGCGGCTGGTGGGCGACCGGGCGCATCCTCATTGCAGTGCGGCGGCCCTACCTCGGCCCTGGCCT
GACCCCGGGCGGCCCTGCCCGCCCTCCCTCCAGCATCATGGCCAGCCCAAGAACCAGGAAGGTTCTTAAAGAAGT
CAGGGTGCAGGATGAGAACAACGTTTGTTTTGAGTGTGGCGCGTTCAATCCTCAGTGGGTGAGTGTGACCTACGG
CATCTGGATCTGCCTGGAGTGCTCGGGGAGACACCGCGGGCTTGGGGTTACCTCAGCTTTGTGCGCTCTGTTAC
TATGGACAAGTGGAAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAATGCTAAGTTCCGAGAGTTCTTGGA
GTCTCAGGAGGATTACGATCCTTGCTGGTCTTGACAGGAGAAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGGA
TAAGGTGGTGCCTCTGGCCGAAGGCAGAGAGTGGTCTCTGGAGTCAACCTGCCAGAACTGGACCCACCTCA
GCCCAGGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGAGAGTGTGACCGCTCCTCGGACAAGGC
TTTTGAGGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCAGGGGAATCGCTACGTGGGGTTTGGGAA
CACGCCACCGCTCAGAAGAAAGAAGATGACTTCCTCAACAACGCCATGTCTCCTGTACTCGGGCTGGAGCAG
CTTACCACTGGAGCCAGCCGTTTGCCTCGGCAGCCAAGGAGGGCGCTACAAAGTTTGGATCCCAAGCGAGTCA
GAAGGCGTCCGAGCTGGGCCACAGCCTGAACGAGAACGTCCTCAAGCCTGCGCAGGAGAAGGTGAAGGAGGGAAA
GATTTTGTATGATGTCTCCAGTGGGGTCTCTCAGTTGGCGTCCAAGGTCCAGGGAGTCGGTAGTAAGGGATGGCG
GGACGTCACCACTTTTTTTCGGGGAAAGCAGAGGGCCCCCTTGGACAGCCCCCTCGGAGGGCCACAGTTATCAGAA
CAGCGGTCTGGACCACTTCCAAAACAGCAACATAGACCAGAGCTTCTGGGAGACCTTTGGAAGTGTGAGCCAC
CAAGACCCGCAAGTCCCCGAGCAGCGACAGCTGGACGTGCGCGGACACCTCCACCGAGAGGAGGAGTCCGACAG
CTGGGAGGTGTGGGGCTCGGCCTCCACCAACAGGAACAGCAACAGCGACGGCGGGGAGGGCGGGGAGGGCACCAA
GAAGGCAGTGCCGCCGGCCGTGCCCCACTGATGATGGCTGGGACAACCAGAACTGGTAGGGCCCACTGCGCCCCCG
TCCCCAGCGCCCCCGGGCGACTTCGTGTTTGCACTCTGCCCTCGTCTCCTCCTCCTTCCATTGACCCAAAGAA
TCAGCAACTGCAGTGTGAGGACAGCGTCTCGGGAGGCAGGACCCTAGGGAGACCCGGGTGTGCGCCGCTGCGCG
TGGGGAGTCTTCGGTGCCTGGGGGCGGCTTGCTGTCCAGCCTGTGTGGGGGCGCTCCCGTCCCACACTCCCCTG
GCATTCTTGGACTCAAGGCCGGGGCTCTGCGTGGCTTGCTGGGAGGTGGGCTGCAGCACAGAGGCTGTGACTGC
GTTCCAGCGCCAGTTCACTACGCAGTATCTCTGGGGCTGGGACCAGCCACGTGCCGAGCTGTGAGCGACGTGA
GGTGTCCCTTCTCGTTGAGATATTTAACTTTGGTTTTGCTCTAGTTCTTTCTTTTGAAGAGAGTGAAGTGGAGTG
GTAAAGATGGAAATGCTGGAAATGATACTGGCGCTCACGCTGCCATCCGACCACCCTCGGCTCCCGAGTCCACGC
CTGCCCTGGGCTGTGCTGTGACACCCGCGTGGTGCCTAACCTCTGTGGCTCCCTGCATCAGCACCGTCCCACC
ACCAAGTTCACCAAGTTTACCAGACACGGCTCCACAATAGCCACACCCACACCTGAGCTGTCTCAGTGTGGA
ACTTGACCATCCTGGAACACCCTGGAAGAAAAGGAGCGCAGGGTGGGCCCTCGGCCCTGATGCAGGAGGGTGGC
ATAGCGACGTGGCCAGGCAGGAGGGGCGGGTTTCAAGAGCTGAGCAGGGGATGCCTGTGCGTGGTGCCTGGGTC
TAGGGAAGCTCCAGCCCCAGGATGGGGCTGCCCTGCACACCGGTGCCCGCCACATGCCAACCCCTCACTCCCCGA
GGACTGGATGATGTGCTGCCACGTGTGACTCGTCTCCTTGTCTGCCCTGTGTGACCTCAGTCTTGCCAGCCA
TGCATGCGCCCGAAGCTCGTGCAGTTTGTACGTGAGGTGCTCTCCTCCTGCCACCATGCTCATCACTCTGGCCT
TGGCCATGCTCCCTGGTCACCCCACTTCCCGGTGCGCGTCTGCAGCACTCCTGGAGCAGCTGGGCCCTTCAGCC
CCTGTGCTCGTCCCACCCTAGGGACTCAGTCACTTGCAGAACAGGATGGGACCGAGATTTACGCGAGCCCTCCTG
CGCCCCGTCTCCCTGTGGGCACCAAGCCCTCTTGGTAGCTGGTGTGGAGGGCCGGTGTCTTGGCTGCCACGGA
GGGATTTGATCACCGAAGCAGCCACCTGCTGTAGTTGGACCTGAGGTGAGGTCAGAGGCGGGGCATCAGAGGCTCAAGGT
GCTGAGAAGCCACCGGGAAGCAGCCAGCACAAAGGGCCAGGAAGCCAGCCCCGAGAGCTGAGCGTGGGGGTCT
TTTGAAGTGTCTTTCTCCAAGCTGAGACGTGGGCGGCCGCGTGGTATCTCCCGAGGGCTGCTTGACCCCTGGTGGG
CTGAGTGTCTCCGAGGAGGGGTGGACTCCACCTTGGACAGTGGGATGTGGTGTTCACATGTGCTGTTTCCACGC
CAGCACCTTGACTTGGCAGCATGGAGCCAAGGTCTGTCCCGCCAGGAGGGTGCCTTCTCGGGGTAGGGGA
CGGCCCACTCTGCCCCAGGGAGTCCCTTTTGTATGGGAAGTGCAGTCAGCAGCGTGGAGGTGTCTGGGCCACCTTC
AGAAGGTGGATGTGGTGGCCGAGACCCCGTCCACGAGGGGTGATGGCCTTTCCCTTCTGAGGTGCGGGCAGGTG
GGCTTGGGACCGGTGCTGGGGCTCTCCTTGCTGTGTGTGAGGGCCAGGTGGAAGGCGGACCTGACAGCATT
CCAATAAAGCATACGGGAACATG

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FIGURE 5862

MASPRTRKVLKEVRVQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDIELEKM
KAGGNAKFREFLESQEDYDPCWSLQEKYNSRAAALFRDKVVALAEGREWSLESSPAQNWTPPQPRTLPSMVHRVS
GQPQSVTASSDKAFEDWLNDLGSYQGAQGNRYVGFGNTPPPQKKEDDFLNNAMSSLYSGWSSFTTGASRFASAA
KEGATKFGSQASQKASELGHSLNENVLKPAQEKVKEGKIFDDVSSGVSQ LASKVQGVGSKGWRDVTTFSGKAEG
PLDSPSEGHSYQNSGLDHFQNSNIDQSFWETFGSAEPTKTRKSPSSDSWTCADTSTERRSSDSWEVWGSASTNRN
SNSDGGEGEGETKKAVPPAVPTDDGWDNQNW

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FIGURE 5863A

CACCAAGCCAGGATCCGCGCACTCCTGGTGGGTCAGAGTGGAGAGAGACCGGCCCCAGTTCCGCTGCCTGCCCC
CCGTGCCTGCTGACATGGTCTTCTGGTGGACGGGTCCTGGAGCATTGGCCACAGTCACTTCCAGCAGGTCAAGG
ACTTCTGGCCAGTGTATCGCACCCCTTTGAAATCGGGCCGGATAAGGTCCAAGTAGGCCTGACTCAGTACAGCG
GGGATGCTCAGACTGAGTGGGACCTGAACCTCCCTCAGCACCAAGGAACAGGTGCTGGCAGCTGTGCGCCGCTCC
GCTACAAGGGGGGAACACGTTTACAGGCCTTGCCCTGACCCACGTGCTGGGGCAGAACCTGCAGCCGGCGGCTG
GCCTCCGTCCAGAGGCAGCCAAGGTGGTGATTCTGGTGACGGACGGCAAGTCCCAGGACGATGTGCACACTGCTG
CCCGTGTCTCAAGGACCTGGGCGTGAACGTCTTCGCTGTGGGTGTGAAGAACGCCGATGAGGCTGAGCTGAGGC
TCCTGGCGTCCCCGCCGAGGGACATACCGTCCACAGCGTGCTGGACTTCCTGCAGCTCGGCGCGCTGGCTGGCC
TGCTCAGCCGTCTCATCTGCCAGAGGCTCCAGGGTGGGAGCCCGCGGCAGGGCCCCAGCAGCGGCTCCAGCCCTGG
ACACCCTCCCTGCCCCACCAGCCTGGTCTGAGCCAGGTGACCTCCTCCAGCATCCGCCTGTCTGGACTCCAG
CCCCCGGCACCCCTCAAGTATCTGATCGTTTGGCGAGCCTCTAGAGGTGGCACCCTCAGGGAGGTGGTGGTGG
AGGGACCCGCCGCTCCACGGAGCTGCACAACCTGGCCTCCCGCACAGAGTACCTGGTCTCCGTGTTCCCCATCT
ATGAGGGCGGGGTTGGCGAAGGCCTGCGGGGCTGGTGACCACAGCACCTCTGCCTCCGCCCGGGCGCTGACCC
TGGCCGAGTGACGCCCAGAACCCTCCACCTCACTGGCAGCCCTCGGCCGGGGCCACCCACTACCTGGTGCAT
GTTCTCCTGCTTCCCCAAGGGTGAAGAGGAGGAGCGAGAGGTGCAGGTGCGGGCGGCCCGAGGTGCTGCTGGATG
GCCTGGAACCTGGCAGGGACTATGAGGTCTCGGTGCAGAGCCTGCGAGGCCCTGAGGGCAGCGAGGCCCGGGGCA
TCCGTGCCAGGACCCCCACCCTGGCCCCCGGAGACACCTGGGCTTCTCAGACGTGAGCCACGACGCGGCACGAG
TGTTCTGGGAGGGTGGCCCGAGGCTGTGCGCTGGTTCAGGGTCACTATGTGTCCAGCGAGGGTGGACACTCGG
GGCAGACAGAGGCTCCTGGGAACGCCACCTCGGCCACGCTGGGGCCTCTCTCTTCTCCACCACCTACACTGTCC
GTGTCACTGCCTCTACCTGGGGTGGCTCCTCTACGCTGACTGGCCGGGTGACCACCAAGAAAGCTCCCAGCC
CAAGCCAGCTGTCCATGACGGAGCTGCCAGGGGATGCAGTCCAGCTGGCGTGGGTGGCCGACGCCCGCTCTGGCG
TGCTTGCTTACCAGATCACGTGGACGCCCCCTGGGAGAGGGGAAGGCTCACGAGATCTCTGTCCAGGGAACCTCG
GCAGGGCGCTCCTGCCTGGCCTAGGGAGGCACACAGAGTACGACGTACCATCTTGGCCTACTACAGGGACGGGG
CCCGCAGTGACCTGTGTCCCTCCGCTATACCCCTCCACGGTGAGCAGGAGCCACCCTCCAACCTGGCCCTGG
CCTCGGAGACCCCGACAGCTGCAGGTGAGTGGACGCCCCCGCTTGGCCGCGTGCTCCATTACTGGCTCACCT
ACGCCCCCGCTCTGGCTTGGGACCCGAGAAATCCGTCTCTGTGCCAGGAGCCAGGAGCCACGTGACACTGCCCG
ACCTGCAGGCAGCCACGAAGTACAGGGTCTGGTCTCAGCTATCTATGCAGCAGGCAGGAGTGAGGCTGTGTCTG
CCAGGGCCAGACAGCTGCCAGCCCTCCGCCCTGACGGCTCCCTCCCAGGGTTTGACCTGATGGTGGCCTTCA
GCCTGGTGGAAAAGGCTTATGCGTCCATCCGGGGCGTGGCCATGGAGCCCTCTGCCTTCGGTGGGACCCGACCT
TCACGCTCTTCAAGGACGCCAGCTGACAAGACGGGTGAGTACGTCTACCCAGCCCCCTACCTCCAGAGCACA
CCATCGTCTTCTTGTGCGCTACTTCCCAGACACCCCGTGAGGCCTTCGCGCTGTGGCAGATGACAGCCGAGG
ACTTCCAGCCCCCTCCTTGGGGTCTGTGGATGCCGGGAAGAAGTCCCTGACCTACTTCCACCGTGACCCAGGG
CTGCCTTGACAGGAGCCACCTTCGACCCGAGGAAGTGAGGAAGATTTCTTCGGGAGCTTCCACAAGGTGCACG
TGGCTGTGGGCCGCTCCAAGGTCAGGCTCTATGTGACTGCCGGAAGGTGGCTGAGCGGCCCTTGGGGAGATGG
GCAGCCACCCGCTGCGGGCTTCGTACGCTGGGGAGGCTGGCCAAGGCCAGGGGCCCGCGAGCAGTTTCGGCCG
CGTTTCAGCTCCAGATGCTGCAGATCGTGTGCAGTGACACCTGGGCCGATGAGGACCGGTGCTGTGAGCTCCCTG
CCTCGAGGGATGGAGAGACCTGCCCCGCTTCGTGTCTGCCTGTTCTGTTCTCAGAGACCCCTGGGCCCCAG
GACCTCAAGGACCCCAAGGCTCCCTGGGAGGAATGGCACCCCAAGGAGAGCAGGGCTTCCCAGGGCCAGGGGTC
CACCAGGGGTCAAAGGAGAGAAGGGAGACCATGGGCTTCCAGGCTTGACAGGGCCACCCGGCCACCAGGGCATCC
CCGGGAGAGTTGGCCTCCAGGGACCAAAGGGAATGAGAGGCCTGGAGGGAACCTGCTGGCCTGCCTGGACCCCTGG
CCCCAGGGGGTTCCAGGGCATGGCAGGGGCCAGGGGCACTAGTGGAGAGCGAGGACCTCCAGGGACCGTGGGGCC
CACAGGACTGCCAGGGCCCAAAGGGGAACGAGGAGAGAAGGGCGAGCCGAGTCCCTTGCCACCCTCTACCAGCT
TGTGAGCCAGGCTGTGAGTCTGCCATTACAGACACAGTGTCAAAGTTCGACTCCTTCCACGAGAACACCAGGCC
CCCCATGCCATCTTGGAGCAGAAGCTGGAGCCGGGCACTGAGCCCTGGGGTCCCCTGGCACCCGAGCAAGGC
CCTGGTTCTTGGAGAATGGGGGCTGGTGGCCGCCACCTTGAGGGCAGAGGGGAGCCTGGAGCTGTTGGTCAGAT
GGGCAGCCCTGGGCAGCAGGGGGCTAGCACCCAGGGCCTTGGGAGTGACAGGACATTTCTGCACTGCCCGAG
GAACGCTGAGCCTTCTCCCTGGGTTTGTCTGGACACCGAGAGCGACCACATCCTGGAGAAGCCAGGAGAAAAGC
TCAGGAAGAGCCTGCAGGTGGAAGGAGAGGGAAGCAGCGGCCTCGGCCAAGGCCACCCCATACTCTTGGCTCTG

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FIGURE 5863B

TAGCATTTCGAAGTTCAGATAAACCCCTGAGTGCTCACCCAGCCAAGCGAGGCGGGAGTCATTTCTGGGAGAGT
GTCCCCACCTTGCTCTGTGCACCCACCTTGAGGCCCTGCAGCTTCAGCCGAGTGGGGAAGGGGAGGGGCTG
GGCTGATGGCGAATCGGGTTCAGGAGGGCAGCAGTGCCCTGTGGCCGTCTCAGTAGCTCTAAAACAGGCTCAACA
ACATGCCCCGCCCTTTCTCTGGGCCTCATCTAAGCCTGGCCAGGGCCCTGTGGGCCCCGCTCTCTCTGCGCCTC
ACGCAGGCAACAGATGGTTCCTGCTGGCCCCACAGTACCTGCACGATGGCTCCTCCCTCAGAACAGCACTCC
CACCCCGCCCCCAGCACCTTCACATCTGGGCACAGGCAGGTCCCTGCCTGCCTCATCGTCCCTCTGTCCCCAGC
CCAAGAAGGAGTTCAGATCCTGTGTGTGAATGGCCACCCCTCACCCACCCAGCCCTGTGCTGAGTTCTTGTGCA
GGGACATTGCTTTGAGACTTGGCACCATCAGCCCCCTGGTCTTAGGGTCTCAGAGCAAGGTTCATCCCTCAGCAGG
CTTCTGGCCTGTGCGCTCCTCAGCACCTCTGCCCAGGTCTCTCCCAACCATCAGACGCTGTGTGAGCCTGGAC
TTCTGCTTATCCCCACTGTGGCCCAAACAGCATGGGGGCAAGCTCAGAACACACACCTGGGCTTCTGGGCCTT
GTGGCCCGTGGGGGTGATGTGGGAACCTTCTACTTCTTTTCCAAACAAATATTAGTAAGTATGCTCCACTGTTACCA
CTTAGGCAGCTAAGCAAGAAAGGTGCCAGAAATGAAGAGGGAAGCCATATCATTGAGGAGAGAATGAAAAGTATT
AAAAAGGAACAAAGAGAGACCCCTTGATATTGACAGAAGGAAAACCCACCAAGATCACCAGTGCAGCATTGCGTGC
ACCAAAGCATACCCCAAAGAGGTGAGCGCAAAACAGCTTCAGGGCAAACACTTCATCTATGATTCAACTGTTCCA
GGAAC TGACCAGACCTGGAGACCAAATAGAGAGT CATAGGCAGGGT CAGCAGGATGGGAGAGAGCGCTGCACCC
ACAGGAGCCACAGCCCTGACTGAGGCCAGGAAGCAGCCCCAAATGCCAGCTCCCACTGCAGCATGAGAACAGAAA
CAGACCACTGAAAATTCCCAAAGTCTGTGGACAAATCAGACGTCGAAGAAGTCACGTGGCATCGAGACAGATTTT
GCACTGAGGGACAAGGAGAGCATGTGGCCAAAGTAGGTGCAGGTAAAGCAGCATCTGGGGCAGAGTTATAGCCTT
CAGTGCAGGTATCAGACACAGTTGTTGAGAGCAGCAGCCCAAGCCAGCCCTCCGTCTGCAGGGAGGACACCTA
GGTCACTTGCTTCTGTTGGGGAGCTGAGTTGCTTCAGATTGTGTGACCAGCAAAACAGCTTGTTGCTCTCACT
TGGTTTCTCCAGGGCGGGGAATTACATGTCCCCAGCTGAACTGAGAAGGCTCTTTGAGCAGTGGAGTGAGCAGGC
TTTGT CATGAGGCAGGAGTGGGGCTAGAAATCAAGCCCAGAGCCCACAGGGCATCCAGAGCCTTCCAAAGGAGCCC
CTCTCTGGGGCTCTCCAATTGATGAAGGGACTGGGCCTGGGTGGCTGAGACCACATTGGCAGCCAGGAGGAG
GCAGCCTGGCCGGGGGAACCAGGGTGGCTCTAATCCCCACCACCCCTCAGCTGCCCTACCCCGCCACGCTGG
TGTGACACCAGTGATGCTCAGCCTCAAAAGGGGAGTCCGGCTGTCTTCGGGAACTGACTTTATGCTGGAGGCCA
ATTAAATGGCACAGCAAAGGCAGCGGCCAGCTGGTGCCAGGCAGCTTAGGGACTGGTCCCTGAGGCCCCACCC
GCCCCAGCCTGTGCAGTGGAGCTGAGTACGAATCAAAGGTGAGGATGGCAAGGGAGCTGAGAGCAGCCTCCGGAT
GCACCAAACCGCCTGGCTCCTGTTTGAGGAAGGCAGCCTCCCCGAGACCCAGCCGACCTGCACGTCTCCCATC
AGCCCCGACTCCACCGCATCCCTCTGGGTCTTTTAGGAGCCCCCAGGGACTGAGCCGGGGCTCACGCTCCTGGC
CAGAGCGCTGGGTTTCTGGCAATGCCTCCCTCCTGCCTTTACGGCCACAGCTCTCCCTCCAGAGGCCCTCTG
TAGTGGGCTCGGTCCCCTCTCCACCCCCAGAGGCAGCACAGCTTCAGCCCTACGCAGTGTGGGGGCTCCGGGAG
GAAATGCAGGGAGGTGCTTGGTCTTGGCCAGAGCTCATGGCCTTAGGTGCTGCCCCCAGTCACCCCGTGCCCCA
TGCAGCCGGGGATGTT CAGCTCAGGCCAGCCACCGAGGTGGTGTGACGCAAGGCTGATCTGACGCTCAGCTCAGG
CCGCTGGGGTCATGGGGGTGTGGGAAGGT CATGGAATCACGGGGCTCACGCTGGGGTCACAGGGTGGTGTGGCT
GTGTGGACTGTAAGGGGCGTGACCCATGCGTATCTGACCTGCCCTCCCTAGGTCTGCAGGCAGTGCCGAGTGGC
TCTGCCTGAGGCCCAAGAGCGACCTTGGAAGCTCCAGGCCTTCACAGCCCTCTGAGAGCCACCTGCAAGGTGG
GGAGCTGGGAAGAACGGCTCAGTGATGAGCTCAGAGGGAGGGGTGGGCACAGCGCCAGGAAGGCGGGTGCCTGC
AGGCCTGGGAGGAATGTGTAGCAGGAGGCAGGGGTGCTGTGCCCGCAGGACCAGCAGGTGAGGCGTGTCCACCC
ACAGAGGATGGCTCTGGCCAGGCAGTGT CAGAAATGGAAGCTGAGGAAACCAACCCAGCTGTAGAGGAGCCT
GCCCCGATGCCATCTGCACCTGGGGGGCGACGTATGGCTGCCAGCCTCTTCATCTACCAAGGACCAGGGCAGTGG
GGAGGGGAGAGCTGGGACACGTGGACTCACACCAGGGCAGATGGTGGGGGAAGCCAGTGTCTGTAGATTAGTGC
ATTCTTTGGGGAAGGGCGTGAACATTTGGACTTGAGCCCCAGCACAGAGACGATGTCATAATACAGCCCCCAT
CGTGATCTGATGGTAAGTACAGAACTCTTGCCAGTGGAGAAACACTCTCTCTCATGTGTGGAATATCCACAC
ACTAACCATGAACTGGGCCATAAGAAACCTTACATTCCAAAGGATCCTGCTGTT CAGAACTCACTCACTCACTGA
TGAAACTGGAAAAACAACCAATGATAACAAGCTAAAGAATGCCTCTAGAACTAAAAGACACACCCATGACTCCA
CAGTAATTCATGGGTTAAAGAGAAAAAAGGAAACGTGAAGATACTTGTAAACAAATAATGATGGATGCAGCGCCA
CGTCAGAACTCTGTGTGCTGCAGCTGCAGTGGTACCTAGAGGGCAATTTATAGCTGTAAATACAGTGCTTTGTTTT
GTTTTCTTGTTTTTTTGAGACAAGGTCTTGCTCTGTCCACCCAGGCTGGAGTACAGTGGCATGATCTCGGCTCAATG

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FIGURE 5863C

CAACCTCTGTGCCACCCCTGGGCTCAAGTGGTCCTCCTGCTCCGGTCTTCTGAGTAGCAGGAACCACAGGCGTGCG
CCACCACGCTTGGCTAATGTTTTTGTATTTTTTAAATAGAGACAGGGTGTTGCCGTGTTACCCAGGCTGGTCT
TGAAC TTCTGAGCTCAAACGATCCACCCTCCTTGGCCTCCCAAAGTGGTGGGATTACAGGTGTGAGTCACCTCAC
CGGCCCTTAAACACAGTTTTTAGGGAAGATTCCAAC TCAAACAATTTTAAATAGTAGAAAATAAACCTGAAGCA
GTGTG

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FIGURE 5864

MVAFSLVEKAYASIRGVAMEPSAFGGTPTFTLTKDAQLTRRVSDVYPAPLPPEHTIVFLVRLLPETPREAFALWQ
MTAEDFQPLLGVLLDAGKKSITYFHRDPRAALQEATFDPQEVKIFFGSFHKVHVAVGRSKVRLYVDCRKVAERP
LGEMGSPPAAGFVTLGRLAKARGPRSSSAFQLQMLQIVCSDTWADEDRCCelpASRDGETCPAFVSACSCSSET
PGPPGPQGPFGPPGVKGEKGDHGLPGLQGHPGHQGIPIGRVGLQGPKGMRGLEGTAGLPGLAPGGSRAWQGP GAL
VESEDLQGFWGPQDCQGPKGNEERRASRSPLPPSTSL

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FIGURE 5865

GGCACGAGGCTCTGTCTGTGGCGCGGCTTCCCGCGGTCTTCTCTGCAAATGGGCTCCGTGGCCTAGCGCCCCCGTC
CCCGCCACCCGTGATCGTGCGCCGAGGCCCGCGAGGGGTGCGCGCCAGATCCCACCAGCCAGCAAGCTAAAGCA
TGGCGGCCATCCCCCTCCAGCGGCTCGCTCGTGGCCACCCACGACTACTACCGGCGCCGCCTGGGTTCACCTTCCA
GCAACAGCTCCTGCAGCAGTACCGAGTGCCCCGGGGAAGCCATTCCCCACCCCCCAGGTCTCCCCAAGGCTGACC
CGGGTCATTGGTGGGCCAGCTTCTTTTTTCGGGAAGTCCACCCTCCCGTTCATGGCCACGGTGTGGAGTCCGCAG
AGCACTCGGAACCTCCCCAGGCCTCCAGCAGCATGACCGCCTGTGGCCTGGCTCGGGACGCCCCGAGGAAGCAGC
CCGGCGGTCACTCCAGCACAGCCAGCGCTGGGCCCCCGTCCTGACCTGAGCGGTTACCACCAGCCCCAGGCCTGC
GGAGGCGCTAGTCCACCAGAGCCCCTCCCCGCCCTCTCCCCACTCCGCATCCCTCGCCCCCTCCCCACCTCCC
ACCCCCACCTGTAACTAGGCGGCTGCAGCAAGCAGACCTTCGCATCAACACAGCAGACACCAAAAACAGTG
AGAGCCCCGCTCTCTACCGCCCGCCCCAGCACTCGCTAGCTTTCCTGACACCTGGAAGTGTGCACCTGGCACCA
AGCGGAAAAATAAACTCCAAGCAGCCAGTAGCCCCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5866

MAAIPSSGSLVATHDYRRRLGSTSSNSSCSSTECPGAIPHPGLPKADPGHWWASFFFGKSTLPFMATVLESA
EHSEPPQASSMTACGLARDAPRKQPGGQSSTASAGPPS

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FIGURE 5867A

TGCTCACCTCTGACAGCCAGACAAGGGCTGTGCTCAGGGGCAGCTCGGCTGGGCACACAGTAGGTGCTTTAGCGG
ACAGCACTGAGGCCCCCAGCAAGAAGCCCATGAGCTCCTCCCCCTCCCGCAGTGCCGCCGACATCTACATCCGGG
AGTATTTCCACAGCCACGTACGCGGCGGCCACCCCGAGGGCACTCCTCTCCGTGTGATGTACACGGACCGGCCG
TGAGCCAGACGGACCCAGTCACGCTGCAGTACTGTTGCCGTGACCGACGACCGCCAGGCTTTCCGCCCCGCCACAC
GGCAGAGCTGGCGCGGCACCGCGTGGTGGTCACCACCACCTCCAGGCCCGTGAGCTCAGGGTGCCGGTTCGGCT
TCTTCTCCACATTCTCATCGATGAGGCGGCCAGATGCTGGAGTGCAGGCCCTACCCCGCTGGCCTATGCCT
CGCACGGCACCCGCTCGTGCTGGCGGGCGACCACATGCAGGTACACCCCGGCTGTTAGTGTGGCCAGGGCCC
GGCGGGCCGAGCACACGCTGCTGCACCGCCTCTTCTGTGCTACCAGCAGGAGACTCACGAGGTGGCGCGGCAGA
GCCGCTGGTCTTCCACGAGAACTACCGCTGCACGGACGCCATTGTAGCTTCATCTCGCGGCACTTCTACGTGG
CCAAGGGCAACCCCATCCACGCCAGGGGCAAGGTTCCGCCCCACCCCGGCACTACCCGCTCATGTTCTGCCACG
TGGCGGGCAGCCCAGACCGGGACATGTCCATGGCGTCTGGCTGAATCTGGCTGAGATTGCGCAGGTGCTCGAGA
AGGTGCAGGAGGCCTACAACACCTGGCCCAGCTGCTGGGGCGGGCCGCGAGCAGAGGTGCACTCTGTGTCGTTTCC
ACGGTGCCAGGTGAGTGCAGTGCAGGAGGCTGAGGAGGCGGGACCTAGGCCAGGTGTCTGTGGCAGTTTTG
AGATCCTGCCAGGGCGGCAGTTCCGGGTGCTGGTGCTCAGCACTGTGCACACCTGCCAGAGCCTGCTCAGCCCTG
GGGCACTGGCCCCCTGAGTTCTTACCGACGCCCGCGTGCTCAACACCGTCTTGACCCGCGCCAGTCCAGCTGG
TGGTAGTGGGGGACGCCGTGGCCCTCTGCTCCTTCGGGGCCTGCGGCAAGCTCTGGGAGAGCTTCATCCGTGAGT
GCGTGGAGCGGCACAGTGTCTGCCCCGAGGGCCTGTCCATGGAGCAGGTGAGCAGGGTGTGGCGCAGAGACGGC
GCTGGCCTCCCCGAGGCACACAGGCTGGGGCAGCGGGGAAGTGGGAGGCTGCCCCAGAGCCAGTAGGGGACCTGG
CCGAGGAGCAGGCGGCTGTGGTGAAGGCCATGGTGAAGGCAGAGCCGGGAGATGAGGCTCTGAGCCAGCATCCC
GTGACATCACGGCAACCACAGCGCAGACGGAGGCTGCGGCAGCACCAGCAGGAGACGCAGTGAAGGAAGACGTGG
TGCCCGGGGCTGTGCGGCAGGAGCGGCTGCTGCAGCGGGCGTGGAGTCCACGGAGGCTGAGGATGCAGAGGCTG
ACTTCTGGCCGTGGGACGGGGAGCTCAACGCTGACGACGCCATCCTACGGGAGCTTCTGGACGAGAGCCAGAAGG
TGATGGTGACCGTTCGGGGAGGACGGGCTGCTGGACACTGTGCGCCAGGCCCGAGTCCCTGCAGCAGGCCCGGCTGT
ACGAGAACCTGCCCCCGGCTGCGCTACGGAAGCTGCTGCACGCGGAGCCCGAGCGGTACCGCCACTGCTCTTTCC
TGCCAGAGACCTTCGAGCGGGCGTCAGCCATCCCGCTGGACGATGCCTCCTCGGGCCCCATCCAGGTGAGGGGCC
GCCTGGACTGTGGGATGGCCTTCGCCGGGGATGAGGTGCTGGTGCAGTCTCTTCGGGAGACAAGGCGCCCGAGG
GGCGGCTTCGGGGCCGCGTGCTGGGCGTGCTGAAGAGGAAGAGGCACGAGCTGGCGTTTGTGTGCCGCATGGACA
CGTGGGACCCGCGCATCATGGTCCCCATCAATGGCTCCGTGACCAAGATCTTCGTGGCCGAGCTGAAGGACCCAT
CGCAGTCCCCATCTACAGCCTCCGGAAGGGCCGGCTGCAGCGTGTGGGGCTTGAGAGGCTCACCGCCGAGGGCC
GGCACAGCCGGCTCTTCTGGGTCCAAATTGTCTGTGGCGGCAAGGCTTCTACTACCCGCTGGGCATCGTCCGGG
AGGTGCTGCTGAGGCCAGCACCTGGGAGCAGGGCCTCCGCATCCTCGGCCTGGAGTACAGCTTGAGGGTGCCCC
CGTCCGACCAGGCCACCATCACCAAGGTGCTGCAGAAATACCACACGGAGCTTGCCGGGTTGCCGGCCGCGGAG
AGGACTGCCGCGCCTTCTTGACCTTCACTGTGGACCCCCAGGGCGCCTGCAACCTCGATGATGCCCTCAGTGTC
GAGACCTGGGTCCCAGGTGCGAGGTGGCTGTGCACATCACTGATGTGGCCAGCTTCGTGCCCAGGGACGGGGTGC
TGGACGTGGAGGCGCAAGGCAGGGCGCTGCGTTCTATGCCCCCGGCAGGGAGCCAGTGCCCATGCTGCCGGCCA
GCCTCTGCCAGGACGTCTCAGCCTCTGCTGCGCGGGACCGCCTGGCCATCTCCCTGTTCCTACCATGGAGA
AGGCCAGTGGCCAGCTGAAGAGCCTGCGCTTTGCACCCTCCGTGGTCCAGTCTGACCGCCAGCTGTCTACGAGG
AGCGGAGGAGGTGATCAGGCAGCACCCGGGTGCCGGCGTGAGCTGCCGGCCCGCTGGACTCCGTGGACGCCT
GCGTCTGGCCGCGTGCTACTTCTCTCGGCTGCTGCGCCGGCACCGCCTGCGGTCCGACTGCTTCTATGAGCAGC
CGGACGAGGACGGCACCCCTGGGCTTCCGCGCGGGCCACATCATGGTGAAGGAGTACATGATTAGTTTAATAGGC
TCGTGGCTGAGTTCTGTGGTGGGACGAGTGACGCGGACGGTACGCCTCTGCGGTGGCAGCCAGCACCCCCGCA
GCCAGCAGCTCAAGGCCCTGTGTGAGAAGCATGGGGACGGGTGCCCTGTACTGCACCTCGGCCACCACTGC
ACGGCGGGGGGAGTCCCCCGACACGCGGCTGCACCTCCTGGCCTCCTCTGGAAGCAGGTCCAGTTTGCTG
CCCGCACCCAGGACTACGAACAGATGGTGGACTTGGTACCACGGACGACATGCACCCATTCTGGCTCCTGCAG
GCCGCGACCTCCGCAAGGCCCTGGAGCGCTGCGCGTTCCGCCGCTGCGCCCGGGGCCACCAAGCAGCAGGGCGGCC
ACTACTCGTGCAGGTGGACTGGTACACGTGGGGCACCTCGCCATCCGCAGGTACCTGGACGTGGTGTTCAGC
GGCAGATCCTGCTGGCGCTGGGCCATGGGGGCTCTGCCTACTCTGCCAGGGACATCGATGGGCTCTGCCAGGCCT
TCAGCCTCCAGCACGCACTTGCCAGAGCTATCAGCGCGGGCGCGCAGCCTGCACCTGGCCGTGCAGCTCAAGG

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FIGURE 5867B

CCCAGCCTCTGGACAAGCTGGGCTTCGTGGTGGACGTGGAGGCGGGCTCCCGCTGCTTCCGGCTGCTCTTCCCCA
GCAACCGGGAGACGCTGCCTGACCCCTGCCCCGTCCCCTACGGCTCCCTGCAGCTGGCCGAGCACCCCCACGCCC
TGGCAGGCCGGCCGGGCTGCGGCTCCTGTGGCGGCGCGTGTCTACTCAGCGCAGGGATCCAGCCCGCCCTGC
CACTGCCTGGCACTGTGCCGACCCACACACCCTGGCCGTGGAGACGGCCCTGTGGAAGCAGCTGCTGGAGCTGG
TGGAGCTGCAGCGCTGGCCGAGGCGGCTGCTCTCATCCAGGAGAAGGGCGAGGCGTCCAGCGGCGGGAGCTGG
TGCAGGTGCAGCGGAGCCACTGTGGCCATTTCTGGAGGTGGCCCGGGAGCTGGGCAGTGGGGACACCCTGCAGG
TGCAGCTCGGCACCAGCCTGCAGCACGGCTTCCTGGTACCGAGCCCTCAGCTCTGGACGGTGGCACCGGGCTTCA
GCCTCTGCCTGGAGCACGTGGAGCGGCCCGGAGACTGCTTCTCAGGCCGTGTGTACCGGGCCCCGAGGGACCGGT
ACCGCGACGTGGATGAGTACGCTGCGTGTGGGAACCAATTCTGCGCCCTGGAGTGGCCACCGGCGCGGTGGCCG
AGAATGACTCCGTCACACTTCAGCACCTGAGTGTCTCCTGGGAGGCGTCACGGACGCCGAGGGGCAGCTGCAGG
GCGCCTTCCGCTGGAGGCGCGCTTCCTCGAGGAGAAGTGTGCCGACATCAACTTCAGCTGCTGCTACCTCTGCA
TCCGGCTCGAGGGGCTGCCGGCTCCACGGCCAGCCCACGCCCTGGGCCAGCAGCCTCGGCCCTGGCCTGAATG
TTGACCCCGGCACGTATACCTGGGTGGCCACGGGCAGACGCAGGACTGGGACCAGGAGCGCCGGGCAGACCGGC
AGGAGGCTCCCAGACGGGTGCACCTCTTCGTCCACCACATGGGCATGGAGAAGGTTCCGGAAGAGGTGCTGAGGC
CGGGCACCTGTTACCGTTGAGCTGCTGCCAAGCAGCTTCCTGATCTCCGCAAGGAGGAAGCCGTGCGTGGAC
TAGAGGAGGCGTCCCCGCTGGTCACCAGCATCGCACTGGGCCGGCCTGTCCGCGAGCCCTCTGCAGAGTGATCC
CCAGCAGGTTCTTGGAGCGGCAGACCTACAACATCCCCGGAGGCCGCCACAAGCTGAACCCAGCCAGAACGTGG
CGGTACAGGGAGGCTCTGGAGAAGCCTTTACGGTCATTACAGGGCCACCAGGTACAGGGAAGACGATCGTGGGCC
TCCACATCGTATTCTGGTTTCATAAATCAAACCAGGAGCAGGTGCAGCCCGAGGGCCCCCCCCCTGGGGAGAAGC
GGCTGGGGGGTCCCTGCATCTTGTACTGCGGCCCTCCAACAAGTCGGTGGATGTCTTGGCAGGACTGCTCCTGA
GAAGGATGGAGCTGAAGCCCCCTCCGTGTGTACAGTGAGCAGGCTGAGGCCAGCGAGTTCCAGTGCCGCGTGTGG
GCAGCAGGAAGCTGCTCAGGAAGAGCCCCGGGAGGGGAGGCCGAACCAGAGCCTCAGGAGCATACCCCTGCACC
ACCGGATCCGGCAGGCCCCCAACCTTACTCGTCGGAAATCAAGGCCCTTTGACACCCGGCTGCAGAGAGGGGAGC
TCTTCTCCAGGGAGGACCTGGTCTGGTACAAGAAGGTCTTGTGGGAGGCTCGGAAGTTCGAGCTGGACCGGCATG
AGGTACATCTCTGCACCTGCTCCTGTGCAGCCTCTGCCAGCCTCAAAATCCTGGACGTGAGGCAGATCCTTGTG
ACGAGGCAGGCATGGCCACGGAACCTGAAACCTCATCCCCCTGGTGCAGTTCCACAGGCCGAGAAGGTGGTTC
TTCTCGGAGACCACAAGCAGCTGCGGCCTGTGGTCAAGAATGAGCGGCTGCAAAACCTGGGTCTGGACCGGTCTC
TGTTTCGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAGTACCGCATGCATGAGGGCATCTGTGCCTTCC
CCTCTGTGGCGTTCTACAAGAGCAAGCTGAAGACGTGGCAGGGCCTGAGGAGGCCGCCAGTGTCTTGGGCCACG
CTGGCAAGGAGAGCTGCCCTGTATCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGACG
AAGGGAATGAGAACTCCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATACCAAGCAGCTGACCCTGG
GGAGGACCGTAGAGCCCCAGGACATCGCCGTCTCACGCCCTACAACGCGCAGGCCCTCTGAGATCAGCAAGGCCC
TTCGGCGAGAGGGCATCGCCGGGGTGGCCGTGTCTCCATACCAAGAGCCAGGGGAGCGAGTGGCGCTATGTGC
TGGTGAGCACCGTCCGCACCTGTGCCAAGAGCGACCTGGACCAGCGGCCACCAAGAGCTGGCTCAAGAAGTTTC
TGGGCTTCGTTGTGGACCCCAACCAAGTGAATGTGGCTGTACGCGGGGCCAGGAGGGGCTCTGCCTGATCGGAG
ACCACCTCCTTCTGCGCTGCTGCCCCCTCTGGCGTAGCCTCCTGGACTTCTGCGAGGCTCAGCAGACCCCTCGTGC
CTGCCGGCCAGGTGCGCGTCTGCAGGAGGCCAACTATGCCTTCTTGAAGAGCCCTCTCCACCTGCAAGGTGCCAG
GACTGGGAGGGAAAGTCCAGGGCCCCCACCCTCCCCACCACCTCCGCCATCAGCCTGCCTGGGCCAGCCTGC
CTCCTGGCCTCAGGATCTCCCTGGGGCAGGAAGTGGGTGGACTTGGAGGAGGAACGGCAAGGGCCGGTCCCCACA
CTCTTGCTCCTCCTGGGCATCTGGGGACAGGAACACCTCTCAGGGTGGCCAAGAGGGGCTTCCTTGGGACAGTG
CAAGGAAGTTCTGCTGTCCCTGGGAAGTCTCAGAACCAGGAAGGAACCTGTGGAGGCTGCCCTTTGACCTTTG
GACGCCACCTGTAATCACTCTGGATGGTGTCTGTGGAGTTACAGTTTATTTTCTATTTAAATGAATAAAAGCCA
GCATCCTGCCGGGCGTGGTGGCTCACGCCCATAATCCAGCACTTTGGGAAGCCGAGGCGGGCAGATCACCTGAGG
TCAGGAGTTTCGAGACCATCCTGGCCAACATGGTGAAACCCCGTCTCCACTAAAAATACAAAATTAGCTGGGCGTG
GTGGCGGGCGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGACTCCAGGAGGCGCAGGCT
GCAGTGAGCTCTGATGGTACCACTGCACCTCCAGCCTGGGTGACAGAGCGAGACCCCTGTCTTAAAAAATAAAACAA
AACAAAACCAGCATCTGTTACTGGAACAGAGACCTCAGCCCCAAGCTCAGGACAAGGAGGCCCTCCCTGGGAGAGGG
GGCCTTTCTCCACCATCACCGCCTGTGTCTTCAGGGGCTGCTGGAGGGCAGCCCAAAGCCAGGGGCCACCCC

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FIGURE 5867C

GCCCCACCCACCCACCCACCCCTCTGAAATGTGAAAAGCCTGCACTCTTCCTGTGGGCTGCGCAGTGGGCTCG
GGGGTTGGGGGTGCCGGGGCGATGCTTCCACCCTGGACTGAGTGTTTCGGGGCAGCCTGCTCGGCTGTATGTTTC
TCGCACGCTCACCCGCTTCAGTGCGGCTCTGTCCCTGCTGCCGCCTCCAGTCCTGAGGGAGGGGCTTGCCCCACC
TTCTACATTCCAATTTTATATCTTTGAATTATGTGATTAGATATTAATTTAATGAT

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FIGURE 5868

MSSSPSRSAADIYIREYFHSVSGGHPEATPLRVMYTDRPLSQTDPTLQYCCLTDDRQAFRPPTRAELARHRVV
VTTTSQARELRVPVGGFFSHILIDEAAQMLECEALTPLAYASHGTRLVLAGDHMQVTPRFLSVARARAAEHTLLHR
LFLCYQQETHEVARQSRLVFHENYRCTDAIVSFISRHFYVAKGNPIHARGKVPPHPRHYPLMFCHVAGSPDRDMS
MASWLNLAETIAQVVEKVQEAYNTWPSCWGGREQRCICVVSHGAQVSALRQELRRRDLGQVS VGSFEILPGRQFRV
VVLSTVHTCQSLLSPGALAPEFFTDARVLNLTVLTRAQSQLVVVGDAVALCSFGACGKLWESFIRECVERHSVCPE
GLSMEQVEQVQAQRRRWPPRGTOAGAAGNWEAAPEPVGDLAEEQA AAVVTAMVKAEPGDEALSPASRDITATTAQT
EAAAAPAGDAVKEDVVP GACAAGAAAAAGVESTAEADA EADFWPDGELNADDAILRELLDESQKVMVTVGEDGL
LDTVARPESLQQARLYENLPPAALRKLLHAEPERYRHCSFVPETFERASAIPLDDASSGPIQVRGRLDGMAFAG
DEVLVQLLSGDKAPEGRRLGRVLGVLKRRRHELAFCVRMDTWDPRIMVPINGSVTKIFVAELKDPSQVPIYSLRK
GRLQRVGLERLTAEARHSRLFWVQIVLWRQGFYYPLGIVREVLPEASTWEQGLRILGLEYSRLVPPSDQATITKV
LQKYHTELGRVAGRREDCRAFTFTVDPQGACNLDDALSVRDLGPRCEVAVHITDVASFVPRDGVLDVEARRQGA
AFYAPGREPVPMPLPASLCQDVLSLLPGRDRLAISLFLTMEKASGQLKSLRFAPSVVQSDRQLSYEEAEVIRQHP
GAGRELPARLDSVDACVVAACYFSRLLRRHRLRSDCFYEQPDEDGTLGFRAAHIMVKEYMIQFNRLVAEFLVGSE
CTRVTPLRWQPAPRSQQKALCEKHGDRVPLSLHLGHHLHGSGGSPDTRLHLLASLWKQVQFAARTQDYEQMV
DLVTDDMHFFLAPAGRDLRKALERSAFGRCAARGHQQGGHYSLQVDWYTWATSPIRR YLDVVLQRQILLALGHG
GSAYSARDIDGLCQAFSLQHALLAQSYQRRARSLHLAVQLKAQPLDKLGFVVDVEAGSRCFRLLFP SNRETLPDPC
PVPYGSLLQAEHPHALAGRPGLRLLWRRRVYSAQGS SPPLPLPGTVDPHTLAVETALWKQLLELVELQRWPEAA
ALIQEKGEASQRREL VQVQRSHCGHFLEVARELGSGDTLQVQLGTSLQHGF LVPSPQLWTVAPGFSLCLEHVERP
GDCFSGRVYRAPRDRYRDVDEYACVWEPFCALESATGAVAENDSVTLQHLSVSWEASRTPOGQLQGAFRLEAAFL
EENCADINFSCCYLCIRLEGLPAPTASPRPGPSSSLGPGNLVDPGTYTWVAHQQTQDWDQERRADRQEAPRRVHLF
VHHMGMEKVPEEVL RPGLFTVELLPKQLPDLRKEEA VRGLEEASPLVTSIALGRPVQP LCRVIPSRFLERQTY
NIPGGRHKLNPSONVAVREALEKPF TVIQGPPTGKTIVGLHIVFWFHKS NQEQVQPGGPPRGEKRLGGPCILYC
GPSNKSVDVLAGLLLRMELKPLRVYSEQAEASEFPVPRVGSRKLLRKSPREGRPNQSLRSITLHHRIRQAPNPY
SSEIKAFDTRLQRGELFSREDLVWYKKVLWEARKFELDRHEVILCTCSAASASLKILDVRQILVDEAGMATEPE
TLIPLVQFPQAEKVVLGDHKQLRPVVKNERLQNLGLDRSLFERYHEDAHMLDTQYRMHEGICAFPSVAFYKSKL
KTWQGLRRPPSVLGHAGKESCPVIFGHVQGHESLLVSTDEGNENSKANLEEVAEVVRITKQLTLGRTVEPDIA
VLTPYNAQASEISKALRREGIAGVAVSSITKSQGSEWRYVLVSTVRTCAKSDLDQRPTKSWLKKFLGFVVDPNQV
NVAVTRAQEGCLIGDHLRLRCCPLWRSLLDFCEAQQTLPAGQVRVCRRPTMPS

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FIGURE 5869

ATGGACGAGGAGAGCCTGGAGTCGGCCTTGACAGACCTACCGTGCGCAGCTGCAGCAGGTGGAGCTGGCCTTGGGC
GCCGGCCTGGATTTCGTCTGAGCAGGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAGGAGCTCATCGAGCTCACC
GAGGCCAGCCTGGTGTCTGTCTAGGAAGAGCAGCTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCCGCCAGGAA
GATGCTGAGTACCAGGCTTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCACCAGCAGCGGCCCGTGGGTCCGGA
TCAGAGACCCTTCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGGGCAGGAGGAGGAAGAGGGAGAGGAC
GAGGAAGAGCTGAGTGGGACAAAGGTGAGCGCGCCCTACTACAGCTCCTGGGGCACTCTGGAGTATCACAACGCC
ATGGTGGTGGGAACGGAAGAGGCGGAGGATGGCTCGGCGGGTGTCCGTGTGCTTTACCTGTACCCCACTCACAAG
TCTCTGAAGCCGTGCCCCTTCTTCTGAGGGGAAAGTGCCGCTTTAAGGAGAACTGCAGGTTCTCCCATGGGCAG
GTGGTCTCTCTGGATGAGCTGCGCCCCCTTCCAGGACCCAGACCTGAGCTCCCTGCAGGCCGGCTCTGCGTGTCTG
GCCAAGCACCAGGATGGCCTCTGGCAGCAGCAGCAGCATCACCGATGTGGACAACGGCTACTACACAGTCAAGTTT
GACTCGCTGCTGCTGAGGGAGGCCGTGGTGGAGGGGGACGGCATCCTGCCCCCACTGCGCACAGAGGCCACAGAG
TCCGACTCAGACAGCGACGGTACGGGTGACTCCAGCTATGCCAGAGTGGTGGGGTCAGATGCTGTGGACTCTGGG
ACCTGCAGCTCTGCCCTTTGCTGGCTGGGAGGTGCACACGCGAGGTATAGGCTCCAGACTCCTCACCAGATGGGC
TATGAGTTTGGCAAGGGTTTGGGCCGACACGCGGAAGGCCGGGTGGAGCCCATCCATGCTGTGGTGTGCTCGA
GGGAAGTCGCTGGACCAAGTGTGTGGAGACCCTGCAGAAGCAGACCAGGGTTGGCAAGGCTGGCACCAACAAGCCC
CCCAGGTGCCGGGGAAGAGGGGCCAGGCCTGGGGGCCGCCAGCTCCTCGGAATGTGTTTGACTTCCTCAATGAA
AAGCTGCAAGGTGAGGCTCCTGGGGCCCTAGAAGCCGGGGCGGCCCCAGCGGGGAGGAGGAGCAAGGACATGTAC
CATGCCAGCAAGAGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGGAGAAGATCGAGCGAACCAG
CGGGACATCAGGAGCATCCAGGAGGCTCTCGCCCGCAACGCTGGCCGGCATAGCGTGGCGTCAGCCCAGCTGCAG
GAGAAGCTGGCAGGAGCCCAGCGCCAGCTGGGGCAGCTCCGGGCTCAGGAAGCCGGCCTGCAGCAGGAGCAGAGG
AAGGCAGACACCCACAAGAAGATGACTGAGTTCTAG

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FIGURE 5870

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLKELIELTEASLVSVRKSSLLAALDEERPGRQE
DAEYQAFREAI TEAVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYSSWGTLEYHNA
MVGTEEAEDGSAGVRVLYLYPTHKSLKPCPFFLEGKCRFKENCRFSHGQVVSLELRPFQDPDLSSLQAGSACL
AKHQDGLWHAARITDVDNGYYTVKFDSLRLREAVVEGDGILPPLRTEATESDSDSDGTGDSSYARVVGSDAVDSG
TCSSAFAGWEVHTRGIGSRLLTKMGYEFKGGLGRHAEGRVEPIHAVVLPRGKSLDQCVETLQKQTRVGKAGTNKP
PRCRGRGARPGGRPAPRNVDFLNEKLQGGAPGALEAGAAPAGRRSKDMYHASKSAKRALSRLRFQTEEKIERTQ
RDIRSIQEALARNAGRHSVASAQLQEKLAGAQRQLGQLRAQEAGLQEQRKADTHKKMTEF

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FIGURE 5871A

CGCTGCCGGTGCCGACCCGCGCCCTCTGCCGCCGCCGCCGCCGCCGGGGTCTCCAGGCTGAGGAGTGCGT
CGGCCGCTGCCAGCAGCGCCGCGAATCGGGGAGCGGAGCCGCGGAGCCGGCGGGAGGGCGGGCGGGCGGGCGGA
CGGGCAGAATAGCCTAACATGGCAGACCAGAGACAGCGCTCACTGTCTACCTCTGGGGAGTCATTGTACCACGTC
CTTGGGTTGGACAAGAACGCAACCTCAGATGACATTAAAAAGTCTATCGGAAGCTTGCCTTGAAATATCACCCC
GACAAGAACCCGACAACCCGGAGGCCGCGGACAAGTTTAAAGGAGATCAACAACGCGCACGCCATCCTCACGGAC
GCCACAAAAGGAACATCTACGACAAGTACGGCTCGCTGGGTCTCTACGTGGCCGAGCAGTTTGGGAAGAGAAC
GTGAACACCTACTTTCGTGCTGTCCAGCTGGTGGGCCAAGGCCCTGTTTGTCTTCTCGGCCCTCCTCACGTGCTGC
TACTGCTGCTGCTGTCTGTGCTGCTGCTTCAACTGCTGCTGCGGGAAGTGTAAAGCCCAAGGCGCCTGAAGGCGAG
GAGACGGAGTTCTACGTGTCCCCGAGGATCTGGAGGCACAGCTGCAGTCTGACGAGAGGGAGGCCACAGACACG
CCGATCGTCAATACAGCCGGCATCCGCCACCGAGACCACCCAGCTCACAGCCGACTCCACCCAGCTACCACACT
GACGGGTTCAACTAAATCCAGGAGGAGCTGTGGTCAGAGGAGGAGCCGGCGCCTGGCCACGCCAACCTTAGAATC
ATGAACTGTAGTCACAGAGATGGGAAGGCAGCCTCCTGCCTGCCCTGGCCTTGCTGGGGCCCTCCTGCCTCCAC
GCCCCACCCAGCGTCGACCCCTTGACCCACGAAGTGCGTAGCATGCAGTATTTAAAGCAGTGTAGCTACGGTCTTCT
GTTTTTTTCCCTTTTTTAAATAGCATGTATGGGGTCTGTTCATGTCTGTGTGTGGACATTCCGCGGCATGACC
GCGTGAACCTGCACGGTGGAGCTGCCTCAGGGCTGTCCGGTCAGGTTGGTCCAGTGAGGGGTGACTGCAGCCGGTCA
GGTGGGCGAGGAGAAGGGGGGCTGCCCCCTTTCCTACCTGTGCTTGAGGGGCCGAGGCAGGTGCTGCCTGGCAGA
GCTGTGTTACCGTCTTGGCCTCGGGGTCTGGTCCACACTCTGTGCTCCAGCCTTGAGGCTGCAGTAGGACTCTG
ATCTCACCTGCCAGAAGAGAGGGCGGGGCCGCTCCTCCTGGCGTCACCGCGTCACTGTCACTTCTTGGTGTCTG
TGCTGGGCATGGTTGGCTTGGGGGTCTGTGGTTTCTGGGCCTTGTTGGCAGGGTTTCTCCCGTGGGAGAAATTTGG
TGTGGAAGCATAGGAGGCCCTTCCGAGGTTGACACCGTGTCTCCGCGGTGTTTCTCGCCTGGTCTGCTCGTCT
GTGTGGACGCTGCCGTTCTGGTTCTCGGAGGTGTGCTCTCGCCGTGTTGGGGTTATTTGTCTGTGTTCTGTCAC
TTTTCCCGGCTCTGAGCTGGATTGATGGGGCCAGTCTCCCCCTCCCATCTTGAGGTCGTTCTCCACATTCTT
CCAGCACACCTGTCTTTCCATAGCCCTTTTTGGACCTTTAGAACCACAGATGATAGGACCAGCCCCAATGAGCCA
CAGTCAGAGAGTAGATTGTGCATGTGTGAGCACCCAGCTACTGGGGACGGGGGCTCTCCACGACCCCTCCTCCT
GTGTTTGCCAGAGCTCCCATCTGCCCCACTCGCCTTTGCCCGTCACTCGATGATTACAGGCAGAGCCAGATTGCTT
AGGTCCCTGGAGGAAGGACTGACTGGACCAGAGGGACCCTCTGGCTCAGGAGGGTTGGGTCCCTGGGAGGCCGGC
AGCCAGGCCACAGAATCCACACGTGGACCATTGTGGGTCCCTGGGAGGCCGGCAGCCAGGCCACGGAATCCACAC
GTGGACCATTGTGGGTCCCTTGGGAGGCCAGCAGCCAGACTACGGAATCCACATGTGGACCATGGGAAGTCAGTC
TCTTGCGTGTCTAGACCTTGTGGGTGGCGCCCTGCATAGGGGAGCAGGGGGAACGGGTCTGATGTCCCTGTGCT
GGCTGAGGGCTCAGAGCTGCCCCGACTCCGTAGCTCATGGGATGTGCTGGGCCTGCCTTTGGCGCCATGCTGCAG
ACTCCAGTGGGCCTGGTTTCTGCAGAATGTCCATGGTGGCCGCTGCAGAGTTGCAGAGGTCCCTGTAGAGATAAA
GCTGAGGAGGAGGCTGTGTGTGATGGCTCTGGCTCGGACCAACCAGATGAGCCTCCTGAAGCCCCCTTCCCTGCC
TGCCCTGCTGACCCGTGGCCCCAGCTCACTCATTGCCCTCAGCAGCCACCCGAGGCTGTGCAGAAGGGTAGGTTCA
GGTTGACCAGGAAGCTGCCAAAAGGGACATGGATATGAGGATACATCTGGACGTGCTTAGGAACAGGGTGTGCTGGT
TGAGGGCCCCCAGCTGACCCCTACTGCAGATCCGCATGTGGACCATGAGCCGGCTGCCAGCACTAGGTCTTGGGC
AGCTTTGTTTGTCCCACTTTTCTTTGTTTCTTCTCACTAAATGATCACGAAGACCTTTGACAAGAGGAGAGATA
TGCATGTGATATTAAATTAGAAATAATTTATCAAAATCAGACCTCTCCTAAAAGAAATAAGAAATTCATTGTTTG
GCCCCATCCTGAAAGGTGAGGTGGCGAGACAGTGGGTGCCCTCCGTGCCGCTTCGTGCAGCAGCAAGTTCAGCCTG
AGATGCTGGCTGTACTCAGCCTTTGCAATTTTGTAGATGTAGCTTAGGACGTGAGTTATTTTCCGACAGACTGG
CCAAGAGCCAGGTTCTAAGCTTGGACCTAAGGTAGAAAGCTGCCCATCGGGGGCCCTAGCTCAGCCCCACCAGGC
CCTCTGTTGGGCCTGCACACAGCTCTGTGGCTAGAACACTCCAAGGCCCTTCGGTACCCATCAGAGTGGGCCCCCT
TGCCAGGTGGCTTTTTCAGTTACAGAGTCCAGTGGACCATTTTGTAGAACCATGCAGCTCCCTGCGGAAGGTGGGG
TAGGGTGGGAAAGAGGAGCAGGTCTGGAGGTTTGTGGAACCCAGTCCCTGCAGAATCTGTAAAACCTAATAAAT
CATGGTTGTGGCCATTCTCACGGTGGTGATTGTGATTAGACGACCCCCGGAAGCCAGACACTCGGGGCCTGGA
GTTCTCCCCCTGCCTGACCTAGAAGCAGAACCCTTTTTCAGCGCTCTGCCCTGTGGCTTTAAGGCTTTGTCTTA
ATTTAAGGAAAAAGATCCTCCCGGGTTTTATTTCTCTCTTCTTGTAGTGGACTGTTTCCCTATAATTAAAAGAGG
TGGTGAGTCTTGGGGCAGCTTCCGCGCCTCCCTGTCCAGTGTCTAACAGATCAGGACGCCCCCAGCACCCTGCC
TGCTTTTGTGTTGGCAGTGACGGGACCCGACTCCTCACTCTCGGGCCGAGACAATGCTGTGAGCAAGTGTGG

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FIGURE 5871B

CCATGGGGCACAGAATGTCCCTTTGGACGCCGCTGCTGGGGGCTGCCAGGGGGCCCTCTGGGGTCTGTGCTTTGAGGC
CCGTCCGGTTCACGAGGGGGTCCGGGCAGCACTGACTGCTTCCGACCTGCAGGAGGCGTAGGAGCGGCCCTGCGG
GCCCTTTCACGGCAGCTGCTGCTGTATAGATTTGTCTCCACTCAGTGACGTGGGATTTTTTGTCTTCCTTTTGG
CTTTATTTTTAACTGCTTTAGATATTACTGCTCAGTGTGTGTGAACCTTCCTAGTTCTCTATGTTGTTAGTGCA
GCCAGCACCCAGTGGGGACCTACTAGAAAAAGGAAGTGGCATGCACACGTGCCCAGCAGGAAAAGCTTCGTCTTC
ACGTGCGGCTGCTGCCATCCAGAAGAGGCCCTGGAGCCTCACGCCGTCGAGGCTGCTCTCAGGCGTTCTGTTCCGG
GCGAGGCTTGTGCTGCAAGGAAGGGCACCAGCATGCAGGCTGCCACTGGAGGGTCCGGGTGCTGCGGGCAGAGTT
CAGCGCTTGTCCACCCTCCCTTAGCTCTGACTCAGTGATCCTACTGTGGGGACATCTCGTGAGGGGACACGAAA
TGACTGATCTCACCCCTTTCCCAGTATTAGAGCTGTGAACCCCTGTGGCGCAGGACTGGCCTGTGTCTGTTATTT
TGGTTGTAAATCATTCTCTGTGGAATTGGCAAAAGCTACATTTTTACTGTCCTTACCAGCAACAGTTTGCCTCG
TCACATGCTGTGAGTGTGGGCTGTGGTGTGTCCGTGTGTGTACATATGTGTATATGTATATATACGCAGCAGGA
GTGTCATTATGCTGCTGTCCCTGGTGAAGTGACAAGTACAATTAAAGGTGGCTCTGAAATGGCCTCTGGTTTC
TTGGGAGTCGGGCAGGGACCTGCAGGAGGCTTTCCAGCAGGTGCACAGAAGGAAGCGCTGAGCCCACTGTGTGC
AGAGGGTGTGTGCCCAGGGCACTGCCACGGCCCCCACCAGCATTGGCCTCTGCTCTGCAGGGTGGGGTGCCCATC
CTGGGGGCTGTGTGTGTCATGCTCACCTGACCCAGGTGTGTGTCCCGGTGTGAAATCGAGGAGGGGACTGGAAGCCC
TTCCCTGCCTTGAAACATGAAAGCTGATTTTCTGAGCAGCAGATACGGTCAGTGGCAAAGCTGCATCTGAAGGGC
GGCCTGGGAAGGGGCCCTGTGCTGGCCCCGGGTCCGCCCCAGAGGAGTCCACACAGCACCACCTCCAGAAGGGGC
TGGGCCCCGGGGTCCTGCAGGCGGCACCTTTTGGTAGAGTTTGTTCCTGGAAAATGGGGAAAATGTTTCAAGCC
AGGTGAGGGGGGAAGTTAACACTGAAATATGTATTGTTTTTAAAAATCAAATGCACACGCATGGAAGCTGCTTGT
CCATGCACTGGTTTTTGTCACTGGCGTCCTGGAATCCGACCGTGTGGGGTGCAGGCGCTGTCAGACTCCGGCTGA
TCCTGGCTCGAGCACACACATCTAAGGGCCAGGCTGGTTCCGCATGGTGATCTCCGTCTGTATGTCTGAATGTT
GGCCTAAAATAAAGATTACTGTTGTAAAT

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FIGURE 5872

MADQRQRLSTSGESLYHVLGLDKNATSDDIKKSYRKLALKYHPDKNPDNPEAADKFKEINNAHAILTDATKRNI
YDKYGSGLGLYVAEQFGEENVNTYFVLSSWWAKALFVFCGLLTCCYCCCCCLCCCFNCCCGKCKPKAPEGEETEFYV
SPEDLEAQLQSDEREATDTPIVIQPASATETTQLTADSHPSYHTDGFN

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FIGURE 5873

CTACGGAGTGCATCGGACGTCGAAGCCTAGAGTCTCTGCGTCTTTCCCTCTTCCGCTGCCTCATTCTTTCTTC
CTAGCCTTGGTCGTCGCCGCCACCATGAACAAGAAGAAACCCTTCTAGGGATGCCCGCGCCCTCGGCTAC
GTGCCGTGGCTGGGCCGGGGCGCCACTGGCTTCACCACGCGGTGACACATTGGGCCCGCCCGTGATGCAAATGAC
CCTGTGGATGATCGCCATGCACCCCCAGGCAAGAGAACCGTTGGGGACCAGATGAAGAAAAATCAGGCTGCTGAC
GATGACGACGAGGATCTAAATGACACCAATTACGATGAGTTTAATGGCTATGCTGGGAGCCTCTTCTCAAGTGGA
CCCTACGAGAAAGATGATGAGGAAGCAGATGCTATCTATGCAGCCCTGGATAAAAGGATGGATGAAAGAAGAAAA
GAAAGACGGGAGCAAAGGGAGAAAGAAGAAATAGAGAAATATCGTATGGAACGCCCCAAAATCCAACAGCAGTTC
TCAGACCTCAAGAGGAAGTTGGCAGAAGTCACAGAAGAAGAGTGGCTGAGCATCCCCGAGGTTGGCGATGCCAGA
AATAAACGTGACGGAACCCACGCTATGAGAAGCTGACCCCTGTTTCTGACAGTTTCTTTGCCAAACATTTACAG
ACCGGAGAGAACCATACTCAGTGGATCCCCGACAACTCAATTTGGAGGTCTTAACACACCCTATCCAGGTGGA
CTAAACACTCCATACCGAGGTGGAATGACGCCAGGACTGATGACACCTGGCACAGGTGAGCTGGACATGAGGAAG
ATTGGCCAAGCGAGGAACACTCTGATGGACATGAGGCTGAGCCAGGTGTCTGACTCCGTGAGTGAGCAGACCGTC
GTTGACCCCAAAGGCTACCTGACGGATTTAAATTCCATGATCCCGACACACGGAGGAGACATCAATGATATCAAG
AAGGCGGCACTGCTCCTCAAGTCTGTTCCGGGAGACGAACCCATCACC CGCCAGCCTGGATTGCATCAGCCCGC
CTGGAAGAAGTCACTGGGAAGCTACAAGTAGCTCGGAACCTTATCATGAAGGGGACGGAGATGTGCCCCAAGAGT
GAAGATGTCTGGCTGGAAGCAGCCAGGTTGCAGCCTGGGGACACAGCCAAGGCCGTGGTAGCCCCAAGCTGTCCGT
CATCTCCACAGTCTGTGAGGATTTACATCAGAGCCGACAGCTGGAAACGGACATTCGTGCAAAGAAGCGGGTT
CTTCGGAAGCCCTCGAGCATGTTCCAACTCGGTTTCGCTTGTGGAAAGCAGCCGTTGAGCTGGAAGAACCTGAA
GATGCTAGAATCATGCTGAGCCGAGCTGTGGAGTGTGCCCCACCAGCGTGGAGCTCTGGCTGTCTGGCAAGG
CTGGAGACCTATGAAATGCCCGCAAGGCTTTGAACAAGGCGCGGGAGAACATTCTACAGACCGACATATCTGG
ATCACGGCTGCTAAGCTGGAGGAAGCCAATGGGAACACGCAGATGGTGGAAGATCATCGACCGAGCCATCACC
TCGCTGCGGGCCAACGGTGTGGAGATCAACCGTGAGCAGTGGATCCAGGATGCCGAGGAATGTGACAGGGCTGGG
AGTGTGGCCACCTGCCAGGCCGTGATGCGTGCCGTGATTGGGATTGGGATTGAGGAGGAAGATCGGAAGCATAACC
TGGATGGAGGATGCTGACAGTTGTGTAGCCACAAATGCCCTGGAGTGTGCACGAGCCATCTACGCCTACGCCCTG
CAGGTGTTCCCCAGCAAGAAGAGTGTGTGGCTGCGCGCCGCGTACTTCGAGAAGAACCATGGCACTCGGGAGTCC
CTGGAAGCACTCCTGCAGAGGGCTGTGGCCCACTGCCCAAGCAGAGGTGCTGTGGCTCATGGGCGCCAAGTCC
AAGTGGCTGGCAGGGGATGTGCTGCAGCAAGGAGCATCTGGCCCTGGCCTTCCAGGCCAACCCCAACAGTGAG
GAGATCTGGCTGGCAGCCGTGAAGCTGGAGTCCGAGAATGATGAGTACGAGCGGGCCCGAGGCTGCTGGCCAAG
GCGCGGAGCAGTGCCCCACCGCCCGGGTGTTCATGAAGTCTGTGAAGCTGGAGTGGGTGCAAGACAACATCAGG
GCAGCCCAAGATCTGTGCGAGGAGGCCCTGCGGCACTATGAGGACTTCCCCAAGCTGTGGATGATGAAGGGGCAG
ATCGAGGAGCAGAAGGAGATGATGGAGAAGGCGCGGAAGCCTATAACCAGGGGTTGAAGAAGTGTCCCCACTCC
ACACCCCTGTGGCTTTTGTCTCTCGGCTGGAGGAGAAGATTGGGCAGCTTACTCGAGCACGGGGCCATTTTGGA
AAGTCTCGTCTGAAGAACCCAAAGAACCCTGGGCTGTGGTTGGAGTCCGTGCGGCTGGAGTACCGTGCGGGGCTG
AAGAACATCGCAAATACACTCATGGCCAAGGCGCTGCAGGAGTGCCCCAACTCCGGTATCCTGTGGTCTGAGGCC
ATCTTCTCGAGGCAAGGCCCCAGAGGAGGACCAAGAGCGTGGATGCCCTGAAGAAGTGTGAGCATGACCCCAT
GTGCTCCTGGCCGTGGCCAAGCTGTTTTGGAGTCAGCGGAAGATCACCAGGCCAGGGAGTGGTTCCACCGCACT
GTGAAGATTGACTCGGACCTGGGGGATGCCTGGGCCTTCTTCTACAAGTTTGAGCTGCAGCATGGCACTGAGGAG
CAGCAGGAGGAGGTGAGGAAGCGCTGTGAGAGTGCAGAGCCTCGGCATGGGGAGCTGTGGTGCGCCGTGTCCAAG
GACATCGCCAACCTGGCAGAAGAAGATCGGGGACATCCTTAGGCTGGTGGCCGCGGCATCAAGAACACCTTCTGA
TTGAGCGGTTGCCATGGCCGTCTCCGTGGGGCAGGGTTGGGCCGATGTGGAAGGGCTCTGAGCTGTGTCTCTCC
TTCATTAAGTTTTTATGTCTCGTGTCAAAAAAAAAAAAAAAAAAGAAAAAAAAA

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FIGURE 5874

MNKKKKPFLGMPAPLGYVPWLGRGATGFTTTRSDIGPARDANDPVDDRHAPPGKRTVGDQMKNQAADDDDEDLND
TNYDEFNGYAGSLFSSGPYEKDDEEADAIYAALDKRMDERRKERREQREKEEIEKYRMERPKIQQQFSDLKRKLA
EVTEEEWLSIPEVGDARNKRQRNPRYEKLTPVPDSFFAKHLQTGENHTSVDPRQTQFGGLNTPYPGGLNTPYRGG
MTPGLMTPGTGELDMRKIGQARNTLMDMRLSQVSDSVSGQTVVDPKGYLTDLNSMIPTHGGDINDIKKARLLLKS
VRETNPHHPPAWIASARLEEVTKLQVARNLIMKGTEMCPKSEDEVWLEAARLQPGDTAKAVVAQAVRHLPOSVRI
YIRAAELETDIRAKKRVLRKALEHVPNSVRLWKAAVELEEPEDARIMLSRAVECCPTSVELWLALARLETYENAR
KVLNKARENIPTDRHIWITAAKLEEANGNTQMVEKIIDRAITSLRANGVEINREQWIQDAEECDRAGSVATCQAV
MRAVIGIGIEEEDRKHTWMEDADSCVAHNALECARAIYAYALQVFPSKKS VWLRAAYFEKNHGTRESLEALLQRA
VAHCPKAEVLWLMGAKSKWLAGDVPAARSILALAFQANPNSEEIWLA AVKLESENDEYERARRLLAKARSSAPTA
RVFMKSVKLEWVQDNIRAAQDLCEEALRHYEDFPKLWMMKGQIEEQKEMMEKAREAYNQGLKKCPHSTPLWLLLS
RLEEKIGQLTRARAILEKSRLKNPKNPGLWLESVRLEYRAGLKNIANITLMAKALQECPN SGILWSEAFLEARPQ
RRTKSVDALKKCEHDPHVLLAVAKLFWSQRKITKAREWFHRTVKIDSDLGDAWAFYKFELQHGT EEQQEEVRKR
CESAEPRHGELWCAVSKDIANWQKKIGDILRLVAGRIKNTF

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FIGURE 5875

AAGTCCCGCCCCCTGGCTTTGGGGAAGTGCCGCGGAGGCGCCTGCGCACTGCGCCCCGCGCCCCCTCCCCGACT
GTCGGGCGCGACCTTGAGCGCGCGGGCCGGCGGCGCGAGTGGCTCGGGAGCGCGGCTGACCCCCAGGCTGT
GGTGAGGGTCTGAGAGCTGGTACCACGGAGCCTGGGCAACCTCCTCCGCCCACCCATGCCACCCCGCATGAGGC
TGAGAAGCAGATCACAGGGCCAGAGGAGGCGGACCGGCCCCCTTCAATGTCCAGTCATGATACAGCCTCTCCAGC
GGCCCCCAGCGCAACCCCTGCTGCCTGTGCTGGTGTGCTGCTGTAGCTGCTCCTGGAACCAAGAGCGGCGGCG
CGCGTGCGAGGCTCCCGGGAGAGCAAGCTGCAGCCCCCTCCCCAGCTGTGAAGTATGTGCCACGCCAAGTCCTGA
GGAGGTGCAGAGCTGGGCGCAGTCTTTTGACAAGCTGATGCACAGCCCAGCGGGACGCAGCGTGTTCGGGGCGTT
CCTGCGGACAGAGTACAGCGAGGAGAACATGCTCTTCTGGTTGGCCTGCGAGGAGCTGAAGGCCGAGGCCAACCA
GCATGTGGTAGACGAGAAGGCGAGGCTCATCTACGAGGACTACGTATCCATCCTGTCCCCCAAGGAGGTGAGCCT
GGACTCCCGTGTGCGGGAGGGCATCAACAAGAAGATGCAGGAGCCGTCCGCACACACGTTTCGACGACGCGCAGCT
GCAGATCTACAGCTCATGCACCGGGACTCCTACCCCCGCTTCCTCAGCTCTCCACCTACCGTGCCCTGCTGCT
GCAGGGGCCATCACAGTCCTCCTCCGAGGCCTAGGCCGCCCCCAGCAGCACAGACCCCGCCGCTCCTACGGCCG
ACTCTGGGTTCCTTCAGGTGTTGTTGTGTCGGCAGGGCTGTGAGGGCACATGCCTGGCCGGCTGGGGTCCCCACCC
GCGGAGACGGTCCTAGACCCAGTGGGGAGTGCTGTGTCTCCTGGGTCTGCCACCCGTGGCCAAGCAGGAACCTCC
AGGTGCAGGGCGGGCCTCCAGGTGCAGGGCGGGCCAGAAGCCCCCTCATCGGCCCGCAGCTGGCTGGCCAGTGC
TCCTGGCTGGGGGCTCTTGCGTGGTGAGAGTAGGGGTCCCCCAGGAGCCATGCTGGACCCATGAGCCTCGCTGG
GGCCTCCTCCCCAGGCAGCCAATGGGCCCCAGACAAGCCTTTGGTGGGGAACAGAACCTCCGCATCGTGTAGTTT
TGTGACATAAGGAGACCTCCTACTTGAGCTGTCTGTACCCCAAGATCAAACACAGAACCTCAGAACCAGATTTAG
GACCTCAGAATCCTGCACITCAAGGTGGCAGGACCCAATTTCTGTTTTATATGTTTCATGAACCTTAAACCTGGAAA
CATGTCCTTACTAGGTGTTTTATCAAAAAAAGTTTTATATTTATCTCTATCCCTAACCCCCCAAAAATAGGAT
GTCTTATTATTGAAGATATTTTTAAAGC

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FIGURE 5876

GGAAAACCGTGTACTATTAGCCATGGTCAACCCACCGTGTTCTTCGACATTGCCGTGACGGCGAGCCCTTGGG
CCGCGTCTCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGGCTTTCACAGAATTATTCCAGGGTTTAT
GTGTCAGGGTGGTGACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAAGATGA
GAACTTCATCCTAAAGCATACAGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGATCCCA
GTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTTTGGCAAAGTGAAAGAAGGCAT
GAATATTGTGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTG
TGGACAACCTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGGTCATTCCCTTCTGTAGCTCAGGAGAGCAC
CCCTCCACCCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCCTTTGGGTTCCATGTTTT
CCTTGTTCCCTCCCATGCCTAGCTGGAT

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FIGURE 5877

GCTCGATGGTCGAGGCCATCTCCTGGTCCGCCTGGCGGCCATCGTGGCTAAACAGAACAAGTTGAAGTACCTGGG
TTTCCTCCGCAAGCGGATGAACACCCACCTTTCCCGAGGTCCCTACCACTTCCGGGCCCCCAGCCGCATCTTCT
GGCGGACCGTGCGAGGTATGCCGCCCCACAAGACCAAGCGAGGCCAGGCTTCTCTGGACCGCCTCAAGGTGTTTG
ACCGCATCCCACCGCCCTACGACAAGAAAAAGCGGATGGTGTTCCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCT
ACAAGAAAGTTTGCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTG
GAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCC
GAGAAGAACATGGAGAAGAAAATTGACAAATACACAGAGGTCCTCAAGACCCACAGACTCCTGGTCTGAGCCCAA
TAAAGACTGTTAATTCCT

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FIGURE 5878

GCATCCCACCGCCCTACGACAAGAAAAAGCGGATGGTGTTCCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCTACA
AGAAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAG
GAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAG
AAGAACATGGAGAAGAAATGAGCCCAATAAAGACTGTTAATTCCTCATGCGTGGCCTGCCCTTCCTCCATCGTCG
CCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGCGCCACAGGCAGCCTCGGACACAGGAAGCTGGGAG
CAAGGAAAGGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAACTGTGCAGGTGTCATTTATC
TATGACCAATAGGAAGAGCAACCAGTTACTATTAGTGAAAGGGAGCCAGAAGACTGATTGGAGGGCCCTATCTTG
TGAGCGGGGCGTCTGTTGGACTTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGCAAGGACTTGGGGAC
AGTATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGCACAACCAAGGGGTT
ACAGGCATCGCCCGTGCTCACCTGTATTTTGTAAATCAGAAATAAATTGCTTTTAAAGAAAAAATAAAA

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FIGURE 5879

ACGAGGGGAAGAAAGGAGTTGGGGCAAACAGGAGGCGTTTCCCTACCCGCATACATCCCCGTCCCCGAGACACC
CAATCCCCCCCACCCAGCCTGCCCGCGCCTCCCGCCCCAGCTCCTCGCCCTGGGGACAGCTGGCAGCCCCGCG
CGGACCAGACACAAAGCCGATCAATCCCGGAGGCGTGGGGGCGGAGGGACGACCCGCCGGGGCTTTCCCGGGCGC
TGCTCTCCTCCTGCTGCCCCCTCGCTAGGACCCGGCGGACGCTCGTCTGGTTTTACGCCCTCTAGCCCCCTACC
CCACACCCCCAAAACAGAACAGACCCCCATCCCTGGGCTGGAGGACCCGCCTCTTGGCAGCCAGCTGAGAAGGC
GCCCCGGGGAGGGGGAAACTGACATCCCATCTAGAGCCGTCCCTCCTCTTCCTCCCCCTCCCGACTCTCTGCTCCT
TTCCCGCCCCAGAAGTTCAAGGGCCCCCGGCCTCCTGCGCTCCTGCCGCCGGGACCCCTCGACCTCCTCAGAGCAG
CCGGCTGCCGCCCGGGGAAGATGGCGAGGAGGAGCCGCCACCGCCTCCTCCTGCTGCTGCTGCGCTACCTGGTGG
TCGCCCTGGGCTATCATAAGGCCTATGGGTTTTCTGCCCAAAGACCAACAAGTAGTCACAGCAGTAGAGTACC
AAGAGGCTATTTTAGCCTGCAAAACCCCAAAGAAGACTGTTTCCCTCCAGATTAGAGTGGAAGAACTGGGTGGA
GTGTCTCCTTTGTCTACTATCAACAGACTCTTCAAGGTGATTTTAAAAATCGAGCTGAGATGATAGATTTCAATA
TCCGGATCAAAAATGTGACAAGAAGTGATGCGGGGAAATATCGTTGTGAAGTTAGTGCCCCATCTGAGCAAGGCC
AAAACCTGGAAGAGGATACAGTCACTCTGGAAGTATTAGTGGCTCCAGCAGTTCCATCATGTGAAGTACCCCTCTT
CTGCTCTGAGTGGAAGTGTGGTAGAGCTACGATGTCAAGACAAAGAAGGGAATCCAGCTCCTGAATACACATGGT
TTAAGGATGGCATCCGTTTGCTAGAAAATCCCAGACTTGGCTCCCAAAGCACCACAGCTCATACACAATGAATA
CAAAAAGTGGAACTCTGCAATTTAATACTGTTTCCAAACTGGACACTGGAGAATATTCCTGTGAAGCCCGCAATT
CTGTTGGATATCGCAGGTGTCCTGGGAAACGAATGCAAGTAGATGATCTCAACATAAGTGGCATCATAGCAGCCG
TAGTAGTTGTGGCCTTAGTGATTTCCGTTTGTGGCCTTGGTGTATGCTATGCTCAGAGGAAAGGCTACTTTTCAA
AAGAAACCTCCTTCCAGAAGAGTAATCTTCATCTAAAGCCACGACAATGAGTGAAAATGATTTCAAGCACACAA
AATCCTTTATAATTTAAAGACTCCACTTTAGAGATACACCAAAGCCACCGTTGTTACACAAGTTATTAACTATT
ATAAACTCTGCTTTGTCCGACATTTGCAAAGAGGTACACGAGGAAATGGAATTGGTATTTTCAATTTTAACTTTCA
TGACTACTAACTCACCTGAAGTTGCTATTTTAAACAAATAGTTCTGTGACACCTAAAATATAATCTGGCTTCTT
GTGCTGGACTAAGTTAAAAGAATTAAAATACTTTGTAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5880

MARRSRHRLLLLLLRYLVVALGYHKAYGFSAPKDQQVVTAVEYQEAILACKTPKKTVSSRLEWKKLGRSVSFVYY
QQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQGQONLEEDTVTLEVLVAPAVPSCEVPSSALSGTV
VELRCQDKEGNPAPEYTWFKDGIRLLENPRLGSQSTNSSYTMNTKTGTLOFNTVSKLDTGEYSCEARNSVGYRRC
PGKRMQVDDLNISGIIAAVVVVVALVISVCGLGVCYAQRKGYFSKETSFQKSNSSSKATTMSENFKHTKSFI I

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FIGURE 5881

AGTTTCCTCGGCAGCGGTAGGCGAGAGCACGCGGAGGAGCGTGC GCGGGGGCCCCGGGAGACGGCGGGCGGTGGCG
GCGCGGGCAGAGCAAGGACGCGGCGGATCCCCTCGCACAGCAGCGCACTCGGTGCCCGCGCAGGGTCGCCATG

CTGCCCCGTTTGGCACTGCTCCTGCTGGCCGCTGGACGGCTCGGGCGCTGGAGGTACCCACTGATGGTAATGCT
GGCCTGCTGGCTGAACCCAGATTGCCATGTTCTGTGGCAGACTGAACATGCACATGAATGTCCAGAATGGGAAG
TGGGATTCAGATCCATCAGGGACCAAAACCTGCATTGATACCAAGGAAGGCATCCTGCAGTATTGCCAAGAAGTC
TACCTGAACTGCAGATCACCATGTGGTAGAAGCCAACCAACCAAGTACCATCCAGAACTGGTGCAAGCGGGGC
CGCAAGCAGTGCAAGACCCATCCCCACTTTGTGATTCCCTACCGCTGCTTAGTTGGTGAGTTTGTAAGTGATGCC
CTTCTCGTTCTGACAAGTGCAAATCTTACACCAGGAGAGGATGGATGTTTGCGAACTCATCTTCACTGGCAC
ACCGTCGCCAAAGAGACATGCAGTGAGAAGAGTACCAACTTGCATGACTACGGCATGTTGCTGCCCTGCGGAATT
GACAAGTTCCGAGGGGTAGAGTTTGTGTGTTGCCCACTGGCTGAAGAAAGTGACAATGTGGATTCTGCTGATGCG
GAGGAGGATGACTCGGATGCTGCTGGTGGGGCGGAGCAGACACAGACTATGCAGATGGGAGTGAAGACAAAGTAGTA
GAAGTAGCAGAGGAGGAAGAAGTGGCTGAGGTGGAAGAAGAAGAAGCCGATGATGACGAGGACGATGAGGATGGT
GATGAGGTAGAGGAAGAGGCTGAGGAACCCCTACGAAGAAGCCACAGAGAGAACCACCAGCATTGCCACCACCACC
ACCACCACCACAGAGTCTGTGGAAGAGGTGGTTTCGAGAGGTGTGCTCTGAACAAGCCGAGACGGGGCCGTGCCGA
GCAATGATCTCCCCTGGTACTTTGATGTGACTGAAGGGAAGTGTGCCCATTCCTTTACGGCGGATGTGGCGGC
AACCAGAACTTTGACACAGAAGAGTACTGCATGGCCGTGTGTGGCAGCGCCATGTCCCAAAGTTTACTCAAG
ACTACCCAGGAACCTCTTGCCCGAGATCCTGTAACTTCTCTACAACAGCAGCCAGTACCCCTGATGCCGTTGAC
AAGTATCTCGAGACACCTGGGGATGAGAATGAACATGCCCATTTCCAGAAAGCCAAAGAGAGGCTTGAGGCCAAG
CACCGAGAGAGAATGTCCCAGGTGATGAGAGAATGGGAAGAGGCAGAACGTCAAGCAAAGAACTTGCTAAAGCT
GATAAGAAGGCAGTTATCCAGCATTTCAGGAGAAAGTGAATCTTTGGAACAGGAAGCAGCCAACGAGAGACAG
CAGCTGGTGGAGACACACATGGCCAGAGTGAAGCCATGCTCAATGACCGCCGCCCTGGCCCTGGAGAAGTAC
ATCACCGCTCTGCAGGCTGTTCTCCTCGGCCTCGTCACGTGTTCAATATGCTAAAGAAGTATGTCCGCGCAGAA
CAGAAGGACAGACAGCACACCTAAAGCATTTCGAGCATGTGCGCATGGTGGATCCCAAGAAAGCCGCTCAGATC
CGGTCCCAGGTTATGACACACCTCCGTGTGATTTATGAGCGCATGAATCAGTCTCTCTCCCTGCTCTACAACGTG
CCTGCAGTGGCCGAGGAGATTGAGGATGAAGTTGATGAGCTGCTTCAGAAAGAGCAAACTATTTCAGATGACGTC
TTGGCCAACATGATTAGTGAACCAAGGATCAGTTACGGAAACGATGCTCTCATGCCATCTTTGACCGAAACGAAA
ACCACCGTGGAGCTCCTTCCCCTGAATGGAGAGTTGAGCCTGTTGATGCCCGCCCTGCTGCCGACCGAGGACTGACC
ACTCGACAGGTTCTGGGTTGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAGATGGATGCAGAATTCCGA
CATGACTCAGGATATGAAGTTCATCATCAAAAATTGGTGTCTTTGCGAGAAGATGTGGGTTCAAACAAAGGTGCA
ATCATTGGACTCATGGTGGGCGGTGTTGTATAGCGACAGTGATCGTCATCACCTTGGTGATGCTGAAGAAGAAA
CAGTACACATCCATTATCATGGTGTGGTGGAGGTTGACGCCGTGTACCCAGAGGAGCGCCACCTGTCCAAG
ATGCAGCAGAACGGCTACGAAAATCCAACCTACAAGTTCTTTGAGCAGATGCAGAACTAGACCCCGCCACAGCA
GCCTCTGAAGTTGGACAGCAAAACCATTGCTTCACTACCCATCGGTGTCCATTTATAGAATAATGTGGGAAGAAA
CAAACCCGTTTTATGATTTACTCATTATCGCCTTTTGACAGCTGTGCTGTAACACAAGTAGATGCCTGAACCTGA
ATTAATCCACACATCAGTAATGTATTCTATCTCTTTTACATTTTGGTCTCTATACTACATTATTAATGGGTTTT
GTGTACTGTAAAGAATTTAGCTGTATCAAACTAGTGCATGAATAGATTCTCTCCTGATTATTTATCACATAGCCC
CTTAGCCAGTTGTATATTATTCTTGTGGTTTGTGACCAATTAAGTCTACTTTACATATGCTTTAAGAATCGAT
GGGGGATGCTTCATGTGAACGTGGGAGTTGAGCTGCTTCTCTGCCTAAGTATTCCTTTCTGATCACTATGCAT
TTTAAAGTTAAACATTTTTAAGTATTTGATATAGGAATTAAGAGGATACACACGTTTGTTCCTCGTGCCTGTTTTAT
GTGCACACATTAGGCATTGAGACTTCAAGCTTTTCTTTTTTGTCCACGTATCTTTGGGTCTTTGATAAAGAAAA
GAATCCCTGTTCAATTGTAAGCACTTTTACGGGGCGGGTGGGGAGGGTGCTCTGCTGGTCTTCAATTACCAAGAA
TTCTCCAAAACAATTTTTCTGCAGGATGATTGTACAGAATCATTGCTTATGACATGATCGCTTTCTACACTGTATT
ACATAAATAAATAAATAAATAAACCCTGGGCAAGACTTTTCTTTGAAGGATGACTACAGACATTAAATAATCGA
AGTAATTTTGGGTGGGGAGAAGAGGCAGATTCAATTTCTTTAACCAGTGAAGTTTCAATTTATGATACAAAAG
AAGATGAAAATGGAAGTGGCAATATAAGGGGATGAGGAAGGCATGCCTGGACAAACCCTTCTTTAAGATGTGTC
TTCAATTTGTATAAATGGTGTTCATGTAAATAAATACATTCTTGAGGAGC

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FIGURE 5882

MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGRINMHMNVQNGKWSDPSGKTCIDTKEGILQYCQE
VYPELQITNVVEANQPVTIQNWCKRGRKQCKTHPHFVIPYRCLVGEFVSDALLVPDKCKFLHQERMDVCETHLHW
HTVAKETCSEKSTNLHDYGMLLPCGIDKFRGVEFVCCPLAEESDNVDSADAEEDSDVWVGADTDYADGSEDKV
VEVAEEEEVAEVEEEEADDDDEDEDGDEVEEEEAEFPYEEATERTTTSIATTTTTTTESVEEVVREVCSEQAETGPC
RAMISRWFYFDVTEGKCAPFFYGGCGGNRNNFDTEEYCMVCGSAMSQSLLKTTQEPLARDPVKLPPTAASTPDAV
DKYLETPGDENEHAHFQKAKERLEAKHRERMSQVMREWEAEERQAKNLPKADKKAVIQHFQEKVESLEQEAAER
QQLVETHMARVEAMLNDRRLALENYITALQAVPPRPRHVFNMLKKYVRAEQKDRQHTLKHFEHVRMVDPKKAAQ
IRSQVMTHLRVIYERMNQSLSLLYNVPAVAEEIQDEVDELLQKEQNYSDVLANMISEPRI SYGNDALMPSLTET
KTTVELLPVNGEFLDDLPWHSFGADSV PANTENEVEPVDARPAADRGLTTRPGSGLTNIKTEEISEVKMDAEF
RHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIATVIVITLVMLKKKQYTSIHGVEVDAAVTPEERHLS
KMQQNGYENPTYKFFEQMQN

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FIGURE 5883

GCATGCTTTTTTTTTTCCGGTAGGTCGCCAGCTGAGGCGGTTTGTAAGTTTTGGGTGCGCAGTATGCTAGAATT
TTGAGGCTCCCTTCTGATGAAAATTGAGCTGTCCATGCAGCCATGGAACCCGGGTACAGCAGTGAGGGGGCCAC
GGCTCAAGAACTTACACATGTCCAAAAATGATTGAGATGGAGCAGGCGGAGGCCAGCTTGCTGAGTTAGACCT
GCTAGCCAGTATGTTCCCTGGTGAGAATGAGCTCATAGTGAATGACCAGCTGGCTGTAGCAGAACTGAAAGATTG
TATTGAAAAGAAGACAATGGAGGGGCGATCTTCAAAAGTCTACTTTACTATCAATATGAACCTGGATGTATCTGA
CGAAAAAATGGCGATGTTTTCTCTGGCCTGTATTCTTCCCTTTAAATACCCGGCAGTTCTGCCTGAAATTACTGT
CAGATCAGTATTATTGAGTAGATCCCAGCAGACTCAGCTGAACACAGATCTGACTGCATTCCCTGCAAAAACATTG
TCATGGAGATGTTTGTATACTGAATGCCACAGAGTGGGTTAGAGAACACGCCTCTGGCTATGTCAGCAGAGATAC
TTCATCTTCACCCACCACAGGAAGCACAGTCCAGTCAGTTGACCTCATCTTCACGAGACTCTGGATCTACAGCCA
TCATATCTATAACAAATGCAAAAGAAAGAATATTCTAGAGTGGGCAAAGGAGCTTTCCCTGTCTGGGTTTAGCAT
GCCTGGAAAACCTGGTGTGTTTGTGTGGAAGGCCACAAAGTGCCTGTGAAGAATTCTGGTCAAGACTCAGAAA
ATTAAGCTGGAAGAGAATTTTAATTCGCCATCGAGAAGACATTCCTTTTGATGGTACAAATGATGAAACGGAAAG
ACAAAGGAAATTTTCATTTTGAAGAAAAAGTGTTCAAGTGAATGGAGCCAGGGGAAACCATGGACTTTGG
TCAGCTCTATCAGTTCTTAAACACCAAAGGATGTGGGGATGTTTCCAGATGTTCTTTGGTGTAGAAGGACAATG
ACATCAAGAGTAGTTGAAAGTATCTTGCCACTGTTGGCCTTTTGATTTTTTTTCCCACTTTTTCTTGAAAGATT
AAGTAATTTTATTTTAGTTCCATTCTAGAATGTTGGGGAGTGGGGCACAAGAAAAAATAGTATAGCTGAAATGCA
TCTGTTAAAAATGTCATGATTGAAAGCAGAACTGAGTTCAAATTACAACCTTAAAATTGTTGTTAGATATTTCT
TCACATATCAGCTGCCCATTTTGAAAAAGAAATTATCCATAAAGGTAATGTTGGTGCTCCAATTTGCCAGCCATT
CCCAACCCCTTCTCCCTTACCTGCCTTCACTAAAGAACCCAGAAAAGCTAATTGCTCCCTTTTCAGCCTCTGTT
GCAACTAACAACCTCTCAGTGGCCTCAGGACACAGCTTTGGCCTTGGGAATTCTGGGAAAACCTTTACTTCCTGAT
TAAAGATACATATGCAGCTAGGCCACCTCCTCCCCCTTACTGCCATAAACACCAAAGTGATGACTGGAGCTGG
AGGAGTTATTTGAACCACGACGGAAGGGCCAAGAGAGCCACGAAGATGCCAGTTGCCACATTGTTGAGCTGCTGA
CCCAACACCAGCCATTGCCTGTCTCTAAACATCTTATGAAATAAAACCAGTTTTGTTTAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 5884

MKIELSMQPWNPGYSSEGATAQETYTCPKMIEQAEQLAELDLLASMFPGENELIVNDQLAVAEKDCIEKKT
MEGRSSKVYFTINMNLVDSDEKMAMFSLACILPFKYPVLPEITVRSVLLSRSQQTQLNTDLTAFLQKHCHGDVC
ILNATEWVREHASGYVSRDTSSSPTTGSTVQSVDLIFTRLWIYSHHIYNKCKRKNILEWAKELSLSGFSMPGKPG
VVCVEGPQSACEEFWSRLRKLNWKRILIRHREDIPFDGTNDETERQRKFSIFEKVFSVNGARGNHMDFGQLYQF
LNTKGCGDVFQMFFGVEGQ

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FIGURE 5885

CGCGTGAAGTCTTCCTGCAGGCTGGCCATGCGCTTCACGTTCCCAAGGCTCCGGGCTTTGCCAGATGCTCAA
GGAGGGAGCGAAACACTTTTCAGGATTAGAAGAGGCTGTGTATAGAAACATACAAGCTTGCAAGGAGCTTGCCCA
AACCACCTCGTACAGCATATGGACCAAAAGGAATGAACAAAATGGTTATCAACCACTTGGAGAAGTTGTTTGTGAC
AAACGATGCAGCAACTATTTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCTTCTCA
TATGCAAGAGCAAGAAGTTGGAGATGGCACAAACTTTGTTCTGGTATTTGCTGGAGCTCTCCTGGAATTAGCTGA
AGAACTTCTGAGGATTGGCCTGTCAGTTTCAGAGGTCATAGAAGGTTATGAAATAGCCTGCAGAAAAGCTCATGA
GATTCTTCCTAATTGGTATGTTGTTCTGCAAAAACCTTCGAGATATTGATGAAGTCTCATCTCTACTTCGTAC
CTCCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGCTCAGGCATGCGTATCTATTTT
TCCTGATTCCGGCCATTTCAATGTTGATAACATCAGAGTTTGTAATAATTCTGGGCTCTGGTATCAGTTCCTCTTC
AGTATTGCATGGCATGGTTTTTAAGAAGGAAACCGAAGGTGATGTAACATCTGTCAAAGATGCAAAAATAGCAGT
GTACTCTTGTCTTTTGATGGCATGATAACAGAACTAAGGGAACAGTGTTGATAAAGACTGCTGAAGAATTGAT
GAATTTTAGTAAGGGAGAAGAAAACCTCATGGATGCACAAGTCAAAGCTATTGCTGATACTGGTGCAAATGTCGT
AGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGCAAATAAATATAATATCATGTTAGTGAGGCTAAA
CTCAAAATGGGATCTCCGAAGACTTTGTAAACCTGTGGTGCTACAGCTCTTCCTAGATTGACACCTCCTGTCTT
TGAAGAAATGGGACACTGTGACAGTGTTTACCTCTCAGAAGTTGGAGATACTCAGGTGGTGGTTTTTAAGCATGA
AAAGGAAGATGGCGCCATTTCTACCATAGTACTTCGAGGCTCTACAGACAATCTGATGGATGACATAGAAAGGT
AGTAGACGATGGTGTTAATACTTTCAAAGTCTTACAAGGGATAAACGTCTTGTACCCGGAGGTGGAGCAACAGA
AATTGAATTAGCCAAACAGATCACATCATATGGAGAGACATGTCCTGGACTTGAACAGTATGCTATTAAGAAGTT
TGCTGAGGCATTTGAAGCTATTCCCCGCGCACTGGCAGAAAACCTCTGGAGTTAAGGCCAATGAAGTAATCTCTAA
ACTTTATGCAGTACATCAAGAAGGAAATAAAAACGTGGATTAGATATTGAGGCTGAAGTCCCTGCTGTAAAGGA
CATGCTGGAAGCTGGTATTCTAGATACTTACCTGGGAAAATATTGGGCTATCAAACCTCGCTACTAATGCTGCAGT
CACTGTACTTAGAGTGGATCAGATCATCATGGCAAAACAGCTGGTGGGCCCAAGCCTCCAAGTGGGAAGAAAGA
CTGGGATGATGACCAAAATGATGGAATTGGCTTAATTTTTACTGTAGGTGAAGGCTGTATTTGTAGTAGTACTC
AAGAATCACCTGATGTTTTCTTATTCTCTTAAATTAAGAGTTATTTGTGTTTGTATTCTTGGCTGGATGTTAT
AATAACATATTGTTACTGTC

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FIGURE 5886

MALHVPKAPGFAQMLKEGAKHFSGLEEAVYRNIQACKELAQTTRTAYGPKGMNKMVINHLEKLFVTNDAATILRE
LEVQHPPAAKMIVMASHMQEQEVGDGTNFVLVFAGALLELAEE LLRIGLSVSEVIEGYEIA CRKAHEILPNLVCCS
AKNLRDIDEVSSLLRTSIMSKQYGNVFLAKLIAQACVSIFPD SGHFNVDNIRVCKILGSGISSSSVLHGMVFKK
ETEGDVTSVKDAKIAVYSCPF DGMITETKGTVLIKTAEELMNF SKGEENLMDAQVKAIADTGANVVVTGGKVADM
ALHYANKYNIMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCD SVYLSEVGDTQVVVFKEHEKEDGAISTI
VLRGSTDNLMDDIERVVDDGVNTFKVLTRDKRLVPGGGATEIELAKQITSYGETCPGLEQYAIKKFAEAFEAI PR
ALAENSGVKANEVISKLYAVHQEGNKVGLDIEAEVPAVKDMLEAGILD TYLGKYWAIKLATNAAVTVLRVDQII
MAKPAGGPKPPSGKKDWDDQND

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FIGURE 5887

CCCTGAGGCTTTTCGGAGCGAGCTCCTCAAATCGCATCCAGATTTTCGGGTCCGAGGGAAGGAGGACCCTGCGAA
AGCTGCGACGACTATCTTCCCCTGGGGCCATGGACTCGGACGCCAGCCTGGTGTCCAGCCGCCGTCGTGCCCAG
AGCCCGATGACCTTTTTCTGCCGGCCCGGAGTAAGGGCAGCAGCGGCAGCGCCTTCACTGGGGGCACCGTGTCT
CGTCCACCCCGAGTGACTGCCC GCCGGAGCTGAGCGCCGAGCTGCGCGGCGCTATGGGCTCTGCGGGCGCGCATC
CTGGGGACAAGCTAGGAGGCGAGTGGCTTCAAGTCGTCTCGTCCAGCACCTCGTCTGTCTACGTCTGCGCGGCTG
CGTCGTCCACCAAGAAGGACAAGAAGCAAATGACAGAGCCGGAGCTGCAGCAGCTGCGTCTCAAGATCAACAGCC
GCGAGCGCAAGCGCATGCACGACCTCAACATCGCCATGGATGGCTCCGCGAGGTCATGCCGTACGCACACGGCC
CTTCGGTGC CGCAAGCTTTCCAAGATCGCCACGCTGCTGCTGGCGCGCAACTACATCCTCATGCTACCAACTCGC
TGGAGGAGATGAAGCGACTGGTGAGCGAGATCTACGGGGGCCACCACGCTGGCTTCCACCCGTCGGCTGCGGGC
GCCTGGCGCACTCCGCGCCCCCTGCCCGCCGCCACCGCGCACCCGGCAGCAGCAGCGCACGCCGCACATACCCCCG
CGGTGCACCAACCCCATCCTGCCGCCCCGCCCGCAGCGGCTGCTGCCGCGCTGCAGCCGCGGCTGTGTCCAGCG
CCTCTCTGCCCGGATCCGGGCTGCCGTGCGTTCGGCTCCATCCGTCCACCGCACGGCCTACTCAAGTCTCCGTCTG
CTGCCGCGGGCCGCCCCGCTGGGGGGCGGGGGCGGGCGGAGTGGGGCGAGCGGGGGCTTCCAGCACTGGGGCGGCA
TGCCCTGCCCCCTGCAGCATGTGCCAGGTGCCGCCGCCGACACCACGTGTGCGGTATGGGCGCCGGCAGCCTGC
CGCGCCTCACCTCCGACGCCAAGTGAGCCGACTGGCGCCGGCGCGTTCGTGGCGACAGGGGAGCCAGGGGCCGCGG
GGAAGCGAGGACTGGCCTGCGCTGGGCTCGGGAGCTCTGTGCGGAGGAGGGGCGCAGGACCATGGACTGGGGGTG
GGGCATGGTGGGGATTCCAGCATCTGCGAACC AAGCAATGGGGGCGCCACAGAGCAGTGGGGAGTGAGGGGAT
GTTCTCTCCGGGACCTGATCGAGCGCTGTCTGGCTTTAACCTGAGCTGGTCCAGTAGACATCGTTTATGAAAAG
GTACCGCTGTGTGCATTCTCTACTAGAACTCATCCGACCCCCGACCACCACCTCCGGGAAAAGATTCTAAAAACT
TCTTTCCTGAGAGCGTGGCCTGACTTGCAGACTCGGCTTGGGCAGCACTTCGGGGGGGAGGGGGTGTATGGG
AGGGGGACACATTGGGGCCTTGCTCCTCTTCTCCTTTCTTGGCGGGTGGGAGACTCCGGGTAGCCGCACTGCAG
AAGCAACAGCCCGACCGCGCCCTCCAGGGTGCCTCCCTGGCCCAAGGCCAGGGGCCACAAGTTAGTTGGAAGCCGG
CGTTCCGGTATCAGAAGCGCTGATGGTCATATCCAATCTCAATATCTGGGTCAATCCACACCCCTCTTAGAACTGTG
GCCGTTCCCTCCCTGTCTCTCGTTGATTTGGGAGAATATGGTTTTCTAATAAATCTGTGGATGTTCCCTTCTTCAAC
AGTATGAGCAAGTTTATAGACATTAGAGTAGAACCCTTGTGGATTGGAATAACCCAAAAGTCCCGATTTAGG
GGCGGGTGCAATTGTAGTTATTATTTTAAAATAGAACTACCCACCGACTCATCTTCTCTCTAAGCACAAG
TGATTTGGTTATTTTGGTACCTGAGAACGTAACAGAATTAAAGGCAGTTGCTGTGGAACAGTTTGGGTATTT
GGGGGTCTGTGGCTTTTTTAAAATTTCTTTTTTGGATGTGTAAATTTATCAATGATGAGGTAAGTGC GCAATG
CTAAGCTGTTTGTCTACGTGACTGCCAGCCCCATCGGAGTCTAAGCCGGCTTTCCTCTATTTTGGTTTATTTTG
CCACGTTTAAACACAAATGGTAACTCCTCCACGTGCTTCTGCGTTCCGTGCAAGCCGCCCTCGCGCTGCCTGCG
TTGCAAACTGGGCTTTGTAGCGTCTGCCGTGTAACACCCTTCTCTGATCGCACCGCCCTCGCAGAGAGTGTAT
CATCTGTTTTATTTTGTAAAAACAAAGTGCTAAATAATATTTATTACTTGTTTGGTTGCAAAAACGGAATAAAT
GACTGAGTGTGAGATTTTAAATAAAATTTAAAGT

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FIGURE 5888

MDSDASLVSSRPSSPEPDDLFLPARSKGSSGSAFTGGTVSSSTPSCPPPELSAELRGAMGSAGAHPGDKLGGSGF
KSSSSSTSSSTSSAAASSTKKDKKQMTPELQQLRLKINSRERKRMHDLNIAMDGLREVMPYAHGPSVRKLSKIA
TLLLLARNYILMLTNSLEEMKRLVSEIYGGHHAGFHPSACGGLAHSAPLPAATAHPAAAAHAAHHPAVHHPILPPA
AAAAAAAAAAAAVSSASLPGSGLPSVGSIRPPHGLLKSPSAAAAAPLGGGGGGSGASGGFQHWGGMPCPCSMCQV
PPPHHVVSAMGAGSLPRLTSDAK

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FIGURE 5889

CCGGAAGCCGCCGCGGACAAGCTCTCCCGGGCGCGGGCGGGGGTTCGTGTGCTTGGAGGAAGCCGCGGAACCCCCA
GCGTCCGTCCATGGCGTGGAGCCTTGGGAGCTGGCTGGGTGGCTGCCTGCTGGTGTGTCAGCATTGGGAATGGTACC
ACCTCCCGAAAAATGTCAGAATGAATTCTGTTAATTTCAAGAACATTCTACAGTGGGAGTCACCTGCTTTTGCCAA
AGGGAACCTGACTTTTACAGCTCAGTACCTAAGTTATAGGATATTCCAAGATAAATGCATGAATACTACCTTGAC
GGAATGTGATTCTCAAGTCTTTCCAAGTATGGTGACCACACCTTGAGAGTCAGGGCTGAATTTGCAGATGAGCA
TTCAGACTGGGTAAACATCACCTTCTGTCTGTGGATGACACCATTATTGGACCCCTGGAATGCAAGTAGAAGT
ACTTGCTGATTCTTTACATATGCGTTTCTTAGCCCCATAAATTGAGAATGAATACGAACTTGGACTATGAAGAA
TGTGTATAACTCATGGACTTATAATGTGCAATACTGGAAAAACGGTACTGATGAAAAGTTTCAAATTACTCCCCA
GTATGACTTTGAGGTCTCAGAAACCTGGAGCCATGGACAACCTTATTGTGTTCAAGTTCGAGGGTTTCTTCCTGA
TCGGAACAAAGCTGGGGAATGGAGTGAGCCTGTCTGTGAGCAAAACAACCCATGACGAAACGGTCCCCTCCTGGAT
GGTGGCCGTCATCCTCATGGCCTCGGTCTTCATGGTCTGCCTGGCACTCCTCGGCTGCTTCGCCTTGCTGTGGTG
CGTTTACAAGAAGACAAAGTACGCCTTCTCCCTAGGAATTCTCTTCCACAGCACCTGAAAGAGTTTTTGGGCCA
TCCTCATCATAACACACTTCTGTTTTTCTCCTTTCCATTGTGCGATGAGAATGATGTTTTTGACAAGCTAAGTGT
CATTGCAGAAGACTCTGAGAGCGGCAAGCAGAATCCTGGTGACAGCTGCAGCCTCGGGACCCCGCTGGGCAGGG
GCCCCAAAGCTAGGCTCTGAGAAGGAAACACACTCGGCTGGGCACAGTGACGTACTCCATCTCACATCTGCCTCA
GTGAGGGATCAGGGCAGCAAACAAGGGCCAAGACCATCTGAGCCAGCCCCACATCTAGAACTCCCAGACCCTGGA
CTTAGCCACCAGAGAGCTACATTTTAAAGGCTGTCTTGGCAAAAATACTCCATTTGGGAACCTACTGCCTTATAA
AGGCTTTCATGATGTTTTTCAAGATTGGCCACTGAGAGTGTAATTTTCAGCCTTTTATATCACTAAAAATAAGATC
ATGTTTTAATTGTGAGAAACAGGGCCGAGCACAGTGGCTCACGCCTGTAATACCAGCACCTTAGAGGTCGAGGCA
GGCGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAATATGGTGAAACCCAGTCTCTACTAAAAATACA
AAAATTAGCTAGGCATGATGGCGCATGCCTATAATCCAGCTACTCGAGTGCCCTGAGGCAGGAGAATTGCATGAA
CCCGGGAGGAGGAGGAGGAGGTTGCAGTGAGCCGAGATAGCGGCACTGCACTCCAGCCTGGGTGACAAAGTGAGA
CTCCATCTCAAAAAAAAAAAAAAAAAAAAAATTGTGAGAAACAGAAATACTTAAATGAGGAATAAGAATGGAGATG
TTACATCTGGTAGATGTAACATTCTACCAGATTATGGATGGACTGATCTGAAAATCGACCTCAACTCAAGGGTGG
TCAGCTCAATGCTACACAGAGCACGGACTTTTGGATTCTTTGCAGTACTTTGAATTTATTTTCTACCTATATAT
GTTTTATATGCTGCTGGTGCTCCATTAAAGTTTTACTCTGTGTTGC

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FIGURE 5890

GAATCACACTCAGGCAGTCTCTCTCCTTTCTGAACAGAGATGAGCCCTAAGATACCTGGAAGATTTTGTGTTTTAA
CCTCACATTAAGGAAAGCACACATCACCTTGAAAGAGCTAAACTTGACGTCTACAGAATTTCTCTAACTTAACA
TGTTGAGTCTCTGAGAGTGCAAACTTGAAACAAGAGAAAGTGGCCTGCCTGGCATCCTCTGCTTATTGAATGGT
TTTATTTAATTCCTTTTACATTGCCACCTTAACAATCCTTCCAGCTACGTATCTTAAAGGATGTGATGGAGAAG
TTATCAACTGGTGTGTTTTAGACCTCAGTTGGATGAACCCATTCCACTGTATGAGGCAAAAGTTTCCATGGAAGCT
GTTCAAGAAAATCAAGGAAGAAAAAGGTAGTGCACATCAGCGCCCTGGATCGCATACTTTCCAGAAGCGTCGCT
GAACCTGGCGACTGGACTCTGGCCGAGGACCTGGCAGAAAGCGCCAGGGCAGGGTCACCGCTGGGACAGTGGGCGT
TGACGGCCACCCGGGATCGCCGCTGCGGGCTGCGTCTCGCGGGCTGCCACTGCGCATGCTCCGCTCGGAACCGG
CGGGGGCGGAGGCGGGGCGCGCTCGGGGGCGGGAGCTCGGCGAGGCGCCACGTACAGGGGCGGGCCCGGCGCGCGC
GGGAAGTCTCTGTAGGGCGGGCGGCTACCCTCAGCCGCGCGCGTTCATGGCCCTTTTCGGTGCCCGGCTACTCACC
GGGTTTCCGAAAGCCGCCGAGGTAGTGC GGCTCCGACGGAAGAGGGCCCGAGCCGTGGAGCTGCCGCTCCCC
GCCCCGTGAGCTGACGGAGCCGGCGGCCCGGAGCCGCCCTGGTGGCGGGGCTGCCTCTTCGCCCTTTCCCTGC
TGCGGGGGGCGAGGCGGTGGCAGCGGCGGCGGCCCGCGCTGCTCGGAGGAACCCCTTCGCCCGCTGGACAA
CCGACCGCGGGTCGCCGCGGAGCCCCCGACGGGCGGCGCGCGGCGAGCGAGCCGGAGGCCCCGGTCCCGTTTTAG
TTCTAATCAAGAAAATGATTTGCTATGGGAAGAGAAGTTTCTGAAAGAACAAGTGTACTGAATTACCTCAGAC
TTCACATGTATCATTCTCCGAGCCTGATATCCGTCCTCAAAAAGTACTGAGTTACCTGTGGACTGGAGTATTAA
AACGCGACTCCTTTTACCTCTTCTCAACCCTTTACCTGGGCAGATCATTGAAAGCACAGGAAGAAGCTCAAGG
TCTTGTCCAGCATTGTAGGGCAACAGAAGTACTTTGCCTAAAAGTATACAGGATCCCAAACCTCTCCTCTGAGCT
CCGTTGTACCTTCAGCAGAGCCTTATCTATTGGCTCCACCCTGCTTTGTCTTGGCTACCCTGTTCCCTCGTAT
TGGAGCTGATAGAAAATGGCTGGAAAGACAAGTCTTGGTCAAATGATGCAACCCTGCAGCATGTTTTAATGAG
TGACTGGTCTGTGAGCTTTACTTCTCTATATAATTGCTGAAGACAAAACCTTTGCCCTATTTCTACGTTTGTAC
CTATCAGTTTACTGTCTGTTCGAGCAGCAGGATTAGCTGGAAGTGACTTAATCACAGCTCTCATATCTCCAAC
AACTCGAGGTTTAAAGAGAAGCTATGAGAAATGAAGGTATTGAATTTTCTCTGCCTTTAATAAAAGAAAGTGGCCA
TAAGAAGGAGACAGCATCTGGAACAAGCTTGGGATATGGGGAGGAGCAAGCCATCAGTGATGAGGATGAAGAGGA
AAGTTTTTCTGGCTGGAAGAGATGGGTGTGCAAGATAAAATTAAGGAGGAGCAAGCCATCAGTGATGAGGATGAAGAGGA
TAAAGAGAAACATGAAGTACAAATGGATCACAGACCTGAATCTGTTGTGTTGGTAAAGGAATCAACACCTTTAC
ATTGCTCAATTTTTGATTAACCTAAGAGTTTGTGCTACCTCAGGTCCACAGGCAGGACTTCCTCCAACCCT
CTTGTCCCTGTTGCTTTCCGAGGTGCCACAATGCAAATGCTTAAGGCACGGAGTGTGAATGTGAAGACACAAGC
TCTTTCTGGATACAGAGACCAATTTAGTTTGGAGATTACAGGTCTATCATGCCTCATTCTCTGCATTCACTGAC
CATGCTGCTCAAATCTTCACAGAGTGGATCTTTCTCTGCAGTACTGTATCCACACGAGCCAAGTGTGTATTAA
CATCTGCCTGCAAATGGACAAAAGTACTTGATATGGAGGTTGTTTATAAGGAGCTTACTAAGTGTGGTTTGACCC
TAACACTCTGGAGCAACTTAGTCAAATACCGTTACTTGGGAAATCATCTTTACGGAATGTGGTGTGAGAGACTA
CATTTATAATTGGAGATCCTGAACACCAAAGTAAGCCTAAAAGGAATCTTTGAGGAAAAAGCCTTCTAGCAAGG
AAATTCAGATTCTTGAAGTTGAAGGAATATACTGAAATGTTTATAAACATAACTTTTACTACAGTAGCATCTAA
GGTTTTAAATGTGTTTTACTATTTTCAAGATTAGATTTTATAGATATAAGATGAAAACTCAGATAACTCAAATGA
GATATCTATATCCCTACAACCTAATTGTATATTGAGCAGAACTGAATTAATATGCTTCCTTGCAAATGGGAAAT
CACATAGCAGTTACCCCATGGCATTGTGACTAATGGCATCAGGGCAAAAATATGTTACTTTACGATTTACCTGTT
AGCAGGTTCTTGTTCATAAAGGTAGAAAATAAATACAGACAACATCTAAAAA

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FIGURE 5891

MALSVPGYSPGFRKPPEVVRLRRKRARSRGAAASPPRELTEPAARRAALVAGLPLRPFFAAGGRGGGSGGGPAAA
RRNPFARLDNRPRVAAEPPDGPAREQPEAPVPFLDSNQENDLLWEEKFPERTTVTELPQTSHVSFSEPDIPSSKS
TELPVDWSIKTRLLFTSSQPFTWADHLKAQEEAQGLVQHCRATEVTLPKSIQDPKLSSELRCTFQQSLIYWLHPA
LSWLPLFPFRIGADRKMAKGTSPWSNDATLQHVLMSDWSVSFTSLYNLLKTKLCPYFYVCTYQFTVLFRAAGLAGS
DLITALISPTTRGLREAMRNEGIEFSLPLIKESGHKKETASGTS LGYGEEQAISDEDEEESFSWLEEMGVQDKIK
KPDILSIKLRKEKHEVQMDHRPESVVLVKGINFTLLNFLINSKSLVATSGPQAGLPPTLLSPVAFRGATMQMLK
ARSVNVKTQALSGYRDQFSLEITGPIMPHSLHSLTMLLKSSQSGSFSAVLYPHEPTAVFNICLQMDKVLDMEVVH
KELTNCGLHPNTLEQLSQIPLLKSSLRNVVLRDYIYNWRS

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FIGURE 5892

AAGCTTGGCACGAGGCCTACAACCGCCCGGGAGAAGATGGCTGCCCCAGCAGTGTCCGGGCTCTCCCGGCAGGTG
CGATGCTTCAGTACCTCTGTGGTCAGACCATTGCGCAAGCTTGTGAGGCCTCCTGTTTCAGGTATACGGTATTGAA
GGTCGCTATGCCACAGCTCTTTATTCTGCTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAGTTGTTG
AGAGTAGCACAAATCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAATCCCTATGTGAAGCGTTCCATTAAA
GTGAAAAGCCTAAATGACATCACAGCAAAAGAGAGGTTCTCTCCCCTCACTACCAACCTGATCAATTTGCTTGCT
GAAAATGGTCGATTAAGCAATACCCAAGGAGTCGTTTCTGCCTTTTCTACCATGATGAGTGTCATCGCGGAGAG
GTACCTTGACACAGTGACCTCTGCATCTCCTTTAGAAGAAGCCACACTCTCTGAATTAAAAACTGTCCTCAAGAGC
TTCCTAAGTCAAGGCCAAGTATTGAAATTGGAGGCTAAGACTGATCCGTCAATCTTGGGTGGAATGATTGTGCGC
ATTGGCGAGAAATATGTTGACATGTCTGTCAAGACCAAGATTGAGAAGCTGGGCAGGGCTATGCGGGAGATTGTC
TAAAAGTGTGTTTTCTGCCATCAGTGAAAATTCTTAAACTTGGAGCAACAATAAAAAGCTTCCAGAACAGATC
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 5893

MAAPAVSGLSRQVRCFSTSVVRPFAKLVRPPVQVYGIEGRYATALYSAASKQNKLEQVEKELLRVAQILKEPKVA
ASVLNPYVKRSIKVKSNDITAKERFSPLTTNLINLLAENGRLSNTQGVVSAFSTMMSVHRGEVPCTVTSASPLE
EATLSELKTVLKSFLSQGQVLKLEAKTDP SILGGMIVRIGEKYVDMSVKTKIQKLGRAMREIV

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FIGURE 5894

CAGACTCGAGCAGTCTCTGGAACACGCTGCGGGGCTCCCGGGCCTGAGCCAGGTCTGTTCTCCACGCAGGTGTTCCGCGCGCCCCGTTTCAGCCATGTCGTCCGGCATCCATGTAGCGCTGGTGACTGGAGGCAACAAGGGCATCGGCTTGCCATCGTGC GCGACCTGTGCCGGCTGTTCTCGGGGGACGTGGTGCTCACGGCGCGGGACGTGACGCGGGGCCAGGCGGCCGTACAGCAGCTGCAGGCGGAGGGCCTGAGCCCGCGCTTCCACCAGCTGGACATCGACGATCTGCAGAGCATCCGCGCCCTGCGCGACTTCCTGCGCAAGGAGTACGGGGGCCTGGACGTGCTGGTCAACAACGCGGGCATCGCCTTCAAGGTTGCTGATCCACACCCCTTTCATATTCAAGCTGAAGTGACGATGAAAACAAATTTCTTTGGTACCCGAGATGTGTGCACAGAATTACTCCCTCTAATAAAACCCCAAGGGAGAGTGGTGAACGTATCTAGCATCATGAGCGTCAGAGCCCTTAAAAGCTGCAGCCCAGAGCTGCAGCAGAAGTTCCGCAGTGAGACCATCACTGAGGAGGAGCTGGTG GGGCTCATGAACAAGTTTGTGGAGGATACAAAGAAGGGAGTGACCAGAAGGAGGGCTGGCCAGCAGCGCATACGGGGTGACGAAGATTGGCGTCACCGTTCTGTCCAGGATCCACGCCAGGAACTGAGTGAGCAGAGGAAAGGGGAC AAGATCCTCCTGAATGCCTGCTGCCCAGGGTGGGTGAGAACTGACATGGC GGGACCCAAGGCCACCAAGAGCCCA GAAGAAGGTGCAGAGACCCCTGTGTACTTGGCCCTTTTGCCCCAGATGCTGAGGGTCCCCATGGACAATTTGTTTCAGAGAAGAGAGTTGAACAGTGGTGAAGCTGGGCTCACAGCTCCATCCATGGGCCCCATTTTGTACCTTGTCTGAGTTGGTCCAAAGGGCATTTACAATGTCATAAATATCCTTATATAAGAAAAAAATGATCTCTTATCAATTAGCACTCACTAATGTACTACTAATTGAGCAACCTACGCACTCAGTTGACTACGTAAATCTGTGTCAGGTCTTTTGTGATTTCTCTGATGCAGGAGAGGAAAAATTGTAATTGATGAAAATAATGAATGAAAATCAACAGATGAATAAATGGTTCTTTATAAGTG

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FIGURE 5895

MSSGIHVALVTGGNKGIGLAIVRDLCLRFSGDVVLTARDVTRGQAAVQQLQAEGLSPRFHQLDIDDLQSIRALRD
FLRKEYGGDLVLVNNAGIAFKVADPTPFHIQAEVTMKTNFFGTRDVCTELLPLIKPQGRVVNVSSIMSVRALKSC
SPELQQKFRSETITEEELVGLMNKFVEDTKKGVHQKEGWPSSAYGVTKIGVTVLSRIHARKLSEQRKGDKILLNA
CCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVSEKRVEQW

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FIGURE 5896A

CTGAACTAGTTGCCAGTGATCTTGAAACGTGACAGTAACCAAGAGATAAATAGGTGACAATGACAGGAAAATTAG
ATGTAGTAAAAGAGAGTGTGTTGAGAGCAGAAGCTATGGCAACTAAAGACTGGATTTGAATCCTTCCTAGCTTGGT
GACATGAGCAAATTACTTGATTTAAGTGAGCATTTCCTCATCTGTACAGTGGAGATAACGATAATTGTGCCTGCT
AAGAAGAATTGCTGTGAAGATTAGTGAAATAATGCATGTAAAACATTTGGTACAGTATGTGACACATAGTACAAA
TAGTTTGCTAGGAAGATTGTTATTATTCTTCACCTGTGATATTGTGAAGTTTTTCATACAGCAAATTGGACATCAT
GAGATGGATTGATTAAATAAATAGATTTGAACTTCAAGGACTGGTAGTGTTCTTGCTTTGGAAAGAAGAAACTTG
GTTTATCCTAATAATAGTAGGATAATAATGGTGAAGTGATAGGTACAAGTAATAGTGTGTTATGATGCGCTGGTGA
TGATAGGAAAAGAAAGCCATTATATGGGCAAGAGCTAGAAGTAATAAATGGTGCATTTTTTCAGTGATGTTTGGC
CTATGTAGCTATTCTCTGATAACTATAAAAAATCCTTATTATTGAAGATTCTTCAGGAAAAAAAACCCCTTAGTCT
GAACTTTAGACCAATCCCCCTTGCCCCCATTGAAATACGTATTTTTAAACATGGCTTTTGATAATGTGAGG
GTTTTTTCCTTTTGCGATTAGCAGTGCTGATTGTGATTGCAGTAGTTGTGAGAGCATTAGAAGCAGCAGTCG
ATAGGAGGATGGAAGGTCTGGATGCCGCTTGGGGAGTTAGGAGATTGGCAGACTTACCCTGTACCACTCTAGCC
CTACTCCTTTGCCAAGACAGAAACACACTGAGATGGATAGGAGAATATGAGCAGTTGATAGGAAAGTTCTCAGT
GGAGTCAGGATTTAGGTTAGGCCAGGAGATTGAGAATATAACAGTTTGTGTATGATGAAATGGCATATTTACAG
AATGCAGTAAAAGCAGGTAGGGTACAAGTGACAGCAACAGGAAGATGTCTTTCTTCATTACAGCAAACACTTATTT
GAGAGCTTACCATGTGCTAGGCACATACAAAGATAAATAAGATGCCCTTGATGATCCTCTATTTAAAGGAGACAT
GTAAACAGGTAACTTAGAGTAGAGATGGTGAATATGTGAACCTGAGGAAAGGAAGAAATAGATTAAATTATCTG
GAGAGAGAGGAAAAGTCAGCAGAATGGGGACGAGAATCTTTCGGAGCTCAGTGTTCTGATAGGAGTTATTTCTT
GGGCATAGGTTCCAAGTATTTTTCTAATATACCATAGAAGCCAGGAAAACCTTTCTTCTGTTATCTCAAATGATTT
AATTACTGACTTGAGTTTGTGTTGTCTCCTTAGACTTGTGCACCATGGACAATTTTGCTGAGGGAGATTTCACTG
TGGCGGATTATGCCCTTGTTAGAAGATTGCCCTCACGTGGATGATTGTGTCTTTGCTGCTGAATTTATGAGCAATG
ATTATGTTTCGTGTGACTCAGCTTTACTGTGATGGGGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGA
ATTTGGAATTTGACATCTGCAGTATATGGTGTAGTAAACCAATTTCTGTCTGCAAGATTATTGCGATGCCATTA
AAATAAACATCTTCTGGCCACTTCTGTTTCAACATCAAAACAGTTCGGTAATATCACGATTGCATCCCTGTGTGG
ACGCCAACAAATTCACGTGCTTCTGAGATAAAATTTGAAGAACTACAACATCTTGAGTTGATGGAAGATATTGTGG
ATTTGGCAAAGAAAAGTTGCTAATGATTCAATCCTTATTGGAGGCTTATTGAGAATTGGTTGTAAAATAGAAAATA
AAATCTTGGCAATGGAAGAAGCTCTGAATTGGATAAAATATGCAGGCGATGTAACAATCTAACTAAATTAGGAT
CAATTGACAATTTGTTGGCCTATGTTAAGTATTTCTTTACTGAATACAAGTACCACATAACTAAAATTGTAATGG
AAGACTGCAATTTGCTTGAAGAACTTAAACTCAAAGTTGTATGGATTGTATAGAGGAAGGAGAACTAATGAAAA
TGAAAGGAAATGAAGAGTTTCCAAAGAAAGATTGATATAGCTATTATCTATTACACCAGAGCCATTGAATATA
GACCTGAAAACCTACCTTCTTTATGGTAACCGAGCTCTTTGTTTTCTTCGTACTGGACAGTTTAGAAATGCACTCG
GTGATGGAAAGAGAGCCACTATTCTGAAGAACACTTGGCCAAAGGGTCATTATCGTTATTGTGATGCTCTTTCTA
TGCTGGGGGAATATGACTGGGCCCTGCAAGCAAACATAAAAGCTCAAAAACCTCTGTAAAATGACCCTGAGGGAA
TCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAAACAAATAGAAGACCTACAAGGTCGAACAGCAAATAAGG
ATCCAATTAAAGCCTTTTATGAAAACAGGGCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCAC
TTAATTTGTGGAAGGAAAGAGATTTAGAAAAATTAATCACGAAATGGCCAACGGTGGTAATCAGAATCTAA
AGGTGGCGGATGAGGCGTTGAAGGTAGATGATTGTGACTGTCTCCTGAATTTTACCACCATCAAGTCAGCCTC
CAAAACATAAAGGAAAAACAAAATCTCGAAACAATGAATCAGAAAAGTTCAAGTTCTAGTTTACCATTGACTTTAC
CAGCAGATTTGAAGAACATCTTGGAGAAACAGTTTTCTAAATCTTCAGAGCTGCACACCAGGATTTTGCTAATA
TAATGAAAATGCTGAGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAGCAGGTTGCCGCAGCGCTGCAC
AGGCCCTTACAGAGATTGCTGAACGGTTTAGATCCTCAAAAAATAAAGCAATTGAACCTGGCCATGATTAACATG
TTTTGGTCTGCTATGGAATTTGCCATTTCTCTCCTTGGAAATAGGACAGCCTGAGGAATTATCTGAAGCCGAAAACC
AGTTTAAAGAGGATTATTGAACACTACCCAGTGAGGGCCTTGATTGCTTGGCCTACTGTGGAATTGAAAAAGTGT
ATTTGAAAAAAAACAGATTTCTAGAAGCTCTCAATCACTTTGAGAAAGCAAGAACCTTGATTTATCGTCTTCTCTG
GAGTGTTAATCTTGGCCACAGTAATGTGATTATTGAAGAGTCTCAGCCACAAAAATAAGATGCTGTGTAGAGA
AATTTGTTGAAGAATGCAAGTTCCCTCCAGTGCCAGATGCCATTTGTTGCTATCAGAAGTGCCATGGATATTCTA
AGATCCAGATATACATAACTGATCCAGACTTTAAGGGTTTTATACGCATCAGCTGTTGCCAGTACTGTAAAATAG
AATTTACATGAATTGCTGGAAGAAGTTAAAACTACAACCTTTAATGATAAAATTGACAAGGATTTCTACAAG

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FIGURE 5896B

GAATATGTCCTTACCCCTGACTGTGAAGGTGTCATTTCTAAGATTATCATCTTCAGCAGTGGTGGTGAAGTTAAAT
GTGAATTTGAACACAAGGTCATAAAAGAAAAGGTTCTCTCAAGACCTATTCTGAAACAGAAATGTTCTAGCCTAG
AGAACTAAGACTGAAAGAAGACAAAAAATTGAAGAGAAAGATCCAAAAAAGAAGCAAAAAAGTTAGCACAAAG
AAAGAATGGAGGAGGACTTAAGAGAAAGTAATCCACCCAAAAATGAAGAGCAGAAAGAACTGTAGACAATGTTT
AGCGTTGTGCTAGTTCTTGTATGACAGAATTCTACAGTGTATAAAGCAGTATGCTGACAAGATTAAATCCGGCATA
AGAATACAGCCATGCTTCTCAAAGAATTGCTTTCTTGAAAGTTTTGAGCACAGAAGACTATACAACCTGTTTTT
CTAGCAGAAATTTCTAAATGAAGCAGTGGACTATGTTATTTCGCCACTTGATTCAAGAAAATAACAGAGTAAAGA
CAAGAATATTTCTGCAATGTTTTGAGTGAGCTTAAAGAAGTGGAGCCCAAATTAGCCGCCTGGATCCAAAACTTA
ATAGCTTTGGCTTAGATGCCACAGGAACCTTTCTTTTCTCGTTATGGAGCATCTCTTAAACTGCTTGATTTTAGTA
TCATGACTTTCTCTGGAATGAGAAATATGGTCACAACTAGACTCTATAGAAGGAAAGCAACTTGATTATTTCT
CTGAGCCAGCATCATTGAAGGAAGCCCGTTGTTAATATGGCTGCTAGAAGAACACAGAGACAAGTTCCAGCAT
TGCATAGTGCTTTAGATGAATTTCTTGATATAATGGACAGCCGCTGTACTGTGTTAAGGAAACAAGATAGTGGTG
AAGCACCCTTTAGTTCAACCAAGGTGAAAAACAAAAGCAAGAAAAAGAAGCCAAAGGATTCAAAGCCTATGTTAG
TTGGGCTCGGAACAACTTCAGTAACTTCAAATAATGAGATCATCACTTCAAGTGAAGACCATAGCAATCGAAAT
CAGATTCTGCAGGCCCATTTGCAGTGCCTGACCATCTTCGGCAAGATGTAGAAGAATTGGAAGCTCTCTATGACC
AACACAGTAACGAATATGTTGTCCGCAATAAGAAGCTATGGGACATGAACCCAAAACAAAATGTTCAACTCTAT
ATGATTACTTCTCTCAGTTTTTGGAGGAACATGGTCCCTTGGACATGAGTAACAAGATGTTCTCTGCAGAAATAG
AGTTTTTCCGAGAAGAACTCGACAGATACTAGAAAAAGCAGGAGGTTTTAAACCTTTTCTCTTGGGATGCCCTC
GTTTTGTGTGATTGACAACTGTATTGCACTGAAGAAGGTTGCATCACGGCTCAAGAAAAAAGGAAGAAGAAAA
ACATTAACAAACAAAGTAGAAGAAATTTCAAAAGCAGGGGAGTATGTACGAGTTAACTACAACGAATCCAGCTG
CTAGGGAATTTAAACCAGATGTAAAGTCTAAACCAGTGTGAGTTTCTCTCAGCACCAGCTTTTGAAAAATGTGA
AACCCAAACCTGTGTCTGCAAATTTCTCCCAAGCCAGCTTGTGAAGATGTGAAGGCCAAACAGTATCCGACAATT
CTTCTAGACAAGTTTCTGAGGATGGGCAACCCAAAGGGGTCTCTTCTAATTCTCCTAAACCAGGCTCTGAGGATG
CAAATTACAAGCGAGTCTCCTGTAATTTCCCCAAACCGGTTCTTGAGGATGTGAAACCAACTTATTGGGCTCAAT
CCCATTGGTGCACAGGATACTGTACGTATCTTCTTTTCCAGAGATTGATATCACCCAGACACCGCCAGCATACA
TAAACGTGTTACCAGGTTTGCCCCAGTACACCAGCATATATACACCCTTGGCCAGCCTTTCTCCTGAATATCAGC
TACCAAGATCAGTACCAGTGGTGCCGTCTTTTGTAGCCAATGACAGAGCAGATAAAAAATGCTGCTGCCATTTTG
AGGGTCATCATTTGAATGCTGAGAATGTTGCTGGTCACCAGATTGCCTCTGAAACACAGATCCTTGAGGGCTCTT
TGGAATATCTGTAAAGTCACACTGCAGCACAGGTGATGCTCATACAGTCCTGAGTGAGTCTAACAGAAATGATG
AGCACTGTGGAATTTCTAACAACAAATGTGAAGTAATTCAGAAAGCACCAGTGCAGTAACAAACATTCCACAG
TGCAGATGGTTGCCATACAGGTATCTTGGAACATAATACACCAAGAAGTCAATACTGAGCCATATAATCCTTTTG
AGGAACGACAAGGGGAAATTTACGGATTGAAAAGGAGCACCAAGTATTACAAGACCAACTTCAAGAAGTGTATG
AAAATTATGAGCAGATAAACTTAAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAAATTAAAAAGGTTTCAAAATGCCAGTGAAA
AAGAAAAACAAGATCTCAAAGACGGAATTAGATTGGTTCTTCAAGATTGGAAGAGAAATTAAAAATGGCAAC
AGGAAAAAAGAAATCCAAGAAAGACTAAATCACTGAAGAAGAAATTAAAAAGGTTTCAAAATGCCAGTGAAA
TGTATACCCAGAAAAATGATGGAAAGGAAAGGAACATGAATTACATCTGGATCAGTCCCTTGAAATCAGCAACA
CACTTACAAATGAGAAAAATGAAAAATAGAAGAGTATATAAAGAAAGGAAAGAGGATTATGAAGAGAGTCATCAGA
GAGCTGTGGCTGCAGAGGTATCCGTACTTGAAAAGTGAAGGAGAGTGAAGTGTATAAGCTACAGATCATGGAGT
CACAAGCAGAAGCCTTTCTGAAGAAGCTGGGGCTGATTAGCCGTGATCCTGCAGCATATCCTGACATGGAGTCTG
ATATACGTTTCATGGGAATTGTTTTCTTTCTAATGTTACAAAAGAAATTGAGAAAGCAAGTCTCAGTTTGAAGAAC
AAATTAAGGCAATTAAAAATGGTTCTCGGCTCAGTGAACCTTTCTAAAGTGCAGATTTCTGAGCTTTCAATTCCTG
CCTGTAACACGGTTTCATCCCGAGTTACTCCCTGAGTCTTCAGGCCACGATGGCCAAAGGGCTTGTGACTTCTGCAA
GCGACGTGACTGGAACACAGCAGCACTTACAGGGATCCTAGTGTGTTCTCTGCTGGTGATTCCCCAGGGGAGG
CTCCTTCTGCGCTGTTGCCAGGGCCACCCCTGGTCAGCCTGAAGCCACTCAGCTGACAGGGCCAAAACGGGCTG
GCCAGGCAGCTCTGTGAGAACGAAGCCCTGTGGCTGATCGGAAGCAGCCTGTTCCTCCAGGACGTGCTGCGCGTT
CAAGCCAGTCTCCAAAAAGCCGTTCAATAGTATTATTGAGCACCTGTGAGTGGTATTTCCATGTTACAACAGCA
CTGAGCTTGCTGGTTTTATTAAAAAGTGCGAAGCAAAAACAAGAACTCACTCTCAGGATTGAGTATTGATGAAA
TTGTCCAAAGAGTGACAGAACACATTCTAGATGAACAGAAAAAGAAAAAGCCAAACCCAGGAAAGGACAAGAGGA

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FIGURE 5896C

CTTATGAGCCCAGCTCTGCCACCCCGTGACCAGGTCTCTCCAGGGCTCACCCCTCGGTGGTTGTTGCACCATCAC
CCAAAACCAAGGGGCAGAAAGCAGAAGATGTCCCTGTGAGGATTGCACTGGGTGCAAGTTCCTGTGAAATATGCC
ACGAGGTGTTCAAATCAAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTATCACAAGGGTGCTTTAAGCAGT
GGCTTAAAGGGCAGAGCGCTTGCCCGGCTGCCAGGGTCGTGATCTCCTGACAGAAGAGTCACCTTCTGGAAGAG
GCTGGCCCAGTCAGAATCAGGAGCTGCCTTCCTGCTCTTCTAGGTAGTCACACTTCACTAAAGTGCATCCACCA
GTGTGTTGAATCCGAAGAATGACAATTTTCTACCACTGGTGTAACCAACATTTGAAGACCCTTGTGCATTG
TGTGTCACAAAGCTAAATACATGGAAATCGTTAATATCGCTGATATTAAGTAATTTCCCCACTCTGAGTGAATAC
TTTGATGATTGCCAACAGTGGCTAATAAAATGACGGCTACCACACTCATGGGTCACTGGGGCTGCGCAGGGCTCT
TTGAGGTGGGTGGCTTCTTTTGAAAGTACTATGAACGTCTCGAAGCAGTATTCTAGTGATAAGAATTCTTAACA
TAGCCAAGCGCCCCACGTTTGTTCACGTTTGTTCCTTTCTGTTTGAAAACCTGTTCTGGTAGCTCCAC
AAGAGAGATGATACTGACTTTTTAAATTTTTTACAAGAGTCTGTATTCTGATATGCCTATATTTTTCTCAAAG
ATTCTGCATTTTAAGGATGGGCATAAGCAAACTATATTTAATAATTTATAGTTAATGTTAAATATTGGCTGAT
TTAGACCAAAAGATTCAAATCTCCTCTTTGTGAAATCCCATCTGCATTTGATTTTTTATTATTTTATGTTCCCC
GTTAGATTGTTTTAAGTGTTTGCTTTTCATCTTTTATAGATGTAATCTGATTTTCAAAAATCATTAACTTTTT
AATTAGTATCGACTAAGACTTTTTCCCCCTGGAATCGAGGCTGTGTGTCCGTCATCCAGCCCCCGGTGGAGCC
TGCTCTTTGAACTCCGCTGCCTTCCTTAGCAGCTTCTGTCTCTTCTGTGAGTCAGTCAGCGAGTGCTTGGGATC
CGCATCCAGCCGTGCTGAGCACACAACAGGCTGTGTGTGGAAATGGCCACCACCATTCTCCTTCCCCACCCACC
ACAAAAGAGAAGCTGTGTCTTTAGACAACCTGAGGTATCTGTGTTACAATCGTTCTGTGTTTGATATTGTGT
AAAGTATGCATGCAGTCTTGTACTGTGACCTAAGAACAAAACCTGTAACCTGCATTAGAAACCATGAAAAAATTAGA
TATTGTTTTGTGACTTTTAGACAGTGGTAAATATAGAACCATGAATTTCTGGTCACATTCCATTTCTCTCCAACAT
GAAGGATCAAAAAATGTTTTTCAATGTGTTCTTTGTTCCTGGAACCTTAGAGTCATGAGTTTATGAGCTGATT
TGGTCACCTTCCTCTGCCTTTGTTCCTGAGTTCCTGATGTCTTAGTGACTTAGTTCTTAGAAGCTCACGCCTT
AGTTTGAAACAGATTCTCCACGGTGGTCCCCAAAACACTGTCTGCATATCCATAAGAATTGAGCGCTATGGGTGT
TAACGTGCATGAGGATCAGTTTGCAGCAGCAAGTACAAAAGGAGAAGAGGAACATCCGTTGAATGAGTGTGTTTT
GTACATAACTTCAGATACTTGTGAACATGCCTTATATTTGTCCAACAACCTGTCAGAATAAAGAACATTCTAAAAAT
GAG

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FIGURE 5897

MDNFAEGDFTVADYALLEDCPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSERNLEFDICSIWCSKPI
SVLQDYCDAIKINIFWPLLQHQNSSVISRLHPCVDANNSRASEINLKKLQHLELMEDIVDLAKKVANDSFLIGG
LLRIGCKIENKILAMEEALNWIYAGDVTILTKLGSIDNCWPMLSIFFTYKYHITKIVMEDCNLLEELKTQSCM
DCIEEGELMKMKGNEEFSEKRFDAIIYYTRAIEYRPENLYLGNRALCFLRTGQFRNALGDGKRATILKNTWPK
GHYRYCDALSMLGEYDWALQANIKAQKLCNDPEGIKDLIQHVKLQKQIEDLQGRGTANKDPIKAFYENRAYTPR
SLSAPIFTTSLNFVEKERDFRKINHEMANGGNQNLKVADEALKVDDCDCHPEFSPPSSQPPKHKGKQKSRNNESE
KFSSSSPLTLPADLKNILEKQFSKSSRAAHQDFANIMKMLRSLIQDGYMALLEQRCRSAAQAFTELLNGLDPQKI
KQLNLAMINYVLVYGLAISLLGIGQPEELSEAENQFKRIIEHYPSGLDCLAYCGIGKVYLKKNRFLALNHFE
KARTLIYRLPGVLTWPTSNVIEESQPKIKMLLEKFVEECKFPVPDAICCYQKCHGYSKIQIYITDPDFKGF
RISCCQYCKIEFHMNCWKKLKTTFNDKIDKDFLQIGICLTPDCEGVISKIIFSSGGEVKEFEHVKIKEKVP
PILKQKCSSLEKRLKEDKKLKRKIQKKEAKLAQERMEEDLRESNPKNEEQKETVDNVQRCQFLDDRILQCIK
QYADKIKSGIQNTAMLLKELLSWKVLSTEDYTTCFSSRNFLNEAVDYVIRHLIQENNRVKTRIFLHVLSELKEVE
PKLAAWIQKLNSFGLDATGTFFSRYGASLKLDFSIMTFLWNEKYGHKLDSEIGKQLDYFSEPASLKEARCLIWL
LEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSGEAPFSSTKVKNKSKKKPKDSKPMVLGSGTTSVTSNNEII
TSEDHSNRNSDSAGPFAVPDHLRQDVEEFEALYDQHSNEYVVRNKKLWDMNPKQKQKSTLYDYFSQFLEEHPD
MSNKMFSAEYEFFPEETRQILEKAGGLKPFLLGCPRFVIDNCIALKKVASRLKKKRKKKNIKTKVEEISKAGEY
VRVKLQLNPAAREFKPDVSKPVSDSSAPAFENVKPKPVSANSPKACEDVKAKPVSDNSSRQVSEDGQPKGVS
SNSPKPGSEDANYKRVSCNSPKPVLEDVKPTYWAQSHLVTGYCTYLPFQRFDTQTTPPAYINVLPGLPQYTSIYT
PLASLSPEYQLPRSVPVVPSFVANDRADKNAAAYFEGHHLNAENVAGHQIASETQILEGSLGISVSKSHCSTGDAH
TVLSESNRNDHEHCNSNNKCEVIPESTSAVTNIPHVQMVAIQVSWNIIHQEVNTEPYNPFEEERQGEISRIEKEHQ
VLQDQLQEVYENYEQIKLKGLEETRDLEEKLRHLEENKISKTELDWFLQDLEREIKKWQOEKKEIQERLKSLLK
KIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIEEYIKKGKEDYEESHQRAVAEVSLENWKE
SEVYKLQIMESQAEAFLLKGLISRDPAAYPDMESEIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELS
KVQISELSFPACNTVHPELLPESSGHDGGLVTSASDVTGNHAALHRDPSVFSAGDSPGEAPSALLPGPPPGQPE
ATQLTGPKRAGQAALERSPVADRKQPVPPGRAARSSQSPKKPFNSIEHLSVVFPYCYNSTELAGFIKKVRSKNK
NSLSGLSIDEIVQRVTEHILDEQKKKKPNPGDKRTYEPSSATPVTRSSQGSPSVVVAPSPKTKGQKAEDVPVRI
ALGASSCEICHEVFKSKNVRVLKCGHKYHKGCFKQWLKGQSACPACQGRDLLTEESP SGRGWPSQNQELPSCSSR

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FIGURE 5898

CTCGCGCAAGCGGCGTGCGGTCCCGCGGCGCTGCAGTTGTGTCCAGCCGGTCACGGGGCGGCTATGGCGGCCACG
TTCTTCGGAGAGGTGGTGAAGGCGCCGTGCCGAGCTGGGACTGAGGACGAAGAGGAGGAGGAGGAGGGGCGGAGG
GAGACGCCCCGAGGACAGGGAGGTGCGTCTGCAGCTGGCGCGGAAGAGGGAAGTGC GGCTCCTTCGAAGACAAACA
AAAACATCTTTGGAAGTTTCTTTGCTAGAAAAATATCCGTGCTCCAAGTTTATAATTGCTATAGGAAATAATGCA
GTAGCATTTCTGTCATCATTTGTTATGAATTCAGGAGTCTGGGAGGAAGTTGGTTGTGCCAAACTCTGGAATGAA
TGGTGTAGAACAACAGACACTACACATCTGTCCTCCACAGAGGCTTTTTGTGTGTTTATCATCTAAAATCCAAT
CCCTCGGTTTTTCTCTGTCAGTGCAGTTGCTATGTTGCAGAAGATCAACAGTATCAGTGGCTGGAAAAGGTTTTT
GGCTCTTGTCCAAGGAAGAACATGCAGATAACTATTCTCACATGTCGACATGTTACCGATTATAAAACCTCAGAA
TCCACCGGCAGCCTTCCTTCTCCTTTTCTGAGAGCCCTAAAAACACAGAATTTCAAAGACTCGGCGTGTTGTCCA
TTGCTAGAACAAACCGAATATAGTACACGACCTTCCTGCAGCAGTTCTAAGCTACTGTCAAGTATGGAAAATCCCA
GCAATTCTGTACTTGTGTTATACTGATGTGATGAAATTAGACCTAATCACAGTGAAGCTTTTAAGCCTATACTT
TCTACCAGAAGCTTGAAGGGTTTGGTTAAGAATATTCCCAAAGCACTGAGATACTAAAGAAATTGATGACAACA
AATGAGATTCAGAGTAACATTTATACATTGATCTTAAACATTGTTTTGTAGTGTATATTACTTGTCCATTCCTTTA
AGGGGAGCAGCCTGCACTCTTTTGTAGATTACTTTTGGGGATATATTTTGAGAATGATGAAACGGAATAAAATT
GTAAAAAACTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5899

MAATFFGEVVKAPCRAGTEDEEEEEEGRRETPEDREVRLQLARKREVRLRRQTKTSLEVSLLEKYPCSKFIIAI
GNNVAFLSSFVMNSGVWEEVGCALWNEWCRITDTTHLSSTEAF CVFYHLKSNPSVFLCQCSCYVAEDQQYQWL
EKVFGSCPRKNMQITILTCRHVIDYKTSESTGSLPSPFLRALKTQNFKDSACCPLLEQPNIVHDLPAAVLSYCQV
WKIPAILYLCYTDVMKLDLITVEAFKPILSTRSLKGLVKNIPOSTEILKKLMTTNEIQSNIYT

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FIGURE 5900

CGCGGCGGCTGGCGTCGGGAAAGTACAGTAAAAAGTCCGAGTGCAGCCGCCGGGCGCAGGATGGGATCCGGCTCC
TCCAGCTACCGGCCCAAGGCCATCTACCTGGACATCGATGGACGCATTTCAGAAGGTAATCTTCAGCAAGTACTGC
AACTCCAGCGACATCATGGACCTGTTCTGCATCGCCACCGGCCTGCCTCGGAACACGACCATCTCCCTGCTGACC
ACCGACGACGCCATGGTCTCCATCGACCCACCATGCCCGCGAATTTCAGAACGCACTCCGTACAAAGTGAGACCT
GTGGCCATCAAGCAACTCTCCGCTGGTGTCTGAGGACAAGAGAACCACAAGCCGTGGCCAGTCTGCTGAGAGACCA
CTGAGGGACAGACGGGTTGTGGGCCTGGAGCAGCCCCGGAGGGAAGGAGCATTTCGAAAGTGGACAGGTAGAGCCC
AGGCCCAGAGAGCCCCAGGGCTGCTACCGGAAGGCCAGCGCATCCCTCCAGAGAGAGAAGAATTAATCCAGAGC
GTGCTGGCGCAGGTTGCAGAGCAGTTCTCAAGAGCATTCAAAATCAATGAACTGAAAGCTGAAGTTGCAAATCAC
TTGGCTGTCTTAGAGAAAACGCGTGGAATTGGAAGGACTAAAAGTGGTGAGATTGAGAAATGCAAGAGTGACATT
AAGAAGATGAGGGAGGAGCTGGCGGCCAGAAGCAGCAGGACCAACTGCCCTGTAAAGTACAGTTTTTTGGATAAC
CACAAGAAGTTGACTCCTCGACGCGATGTTCCCACTTACCCCAAGTACCTGCTCTCTCCAGAGACCATCGAGGCC
CTGCGGAAGCCGACCTTTGACGCTGGCTTTGGGAGCCCAATGAGATGCTGAGCTGCCTGGAGCACATGTACCAC
GACCTCGGGCTGGTCAGGGACTTCAGCATCAACCCTGTCACCCTCAGGAGGTGGCTGTTCTGTGTCCACGACAAC
TACAGAAACAACCCCTTCCACAACCTCCGGCACTGCTTCTGCGTGGCCAGATGATGTACAGCATGGTCTGGCTC
TGCAGTCTCCAGGAGAAGTTCTCACAACGGATATCCTGATCCTAATGACAGCGGCCATCTGCCACGATCTGGAC
CATCCCGGCTACAACAACACGTACCAGATCAATGCCCGCACAGAGCTGGCGGTCCGCTACAATGACATCTCACCG
CTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTCGCCGAGCCTGAGTGCAACATCTTCTCCAACATCCCA
CCTGATGGGTTCAAGCAGATCCGACAGGGAATGATCACATTAATCTTGGCCACTGACATGGCAAGACATGCAGAA
ATTATGGATTCTTTCAAAGAGAAAAATGGAGAATTTTGACTACAGCAACGAGGAGCACATGACCCTGCTGAAGATG
ATTTTGATAAAATGCTGTGATATCTTAACGAGGTCCGTCCAATGGAAGTCGCAGAGCCTTGGGTGGACTGTTTA
TTAGAGGAATATTTTATGCAGAGCGACCGTGAGAAGTCAGAAGGCCCTTCTGTGGCACCCTTCATGGACCGAGAC
AAAGTGACCAAGGCCACAGCCAGATTGGGTTCATCAAGTTTGTCTGATCCCAATGTTTGAAACAGTGACCAAG
CTCTTCCCCATGGTTGAGGAGATCATGCTGCAGCCACTTTGGGAATCCCGAGATCGCTACGAGGAGCTGAAGCGG
ATAGATGACGCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTGACGTCTGGGGCCACCGAGAAGTCCAGAGAG
AGAAGCAGAGATGTGAAAAACAGTGAAGGAGACTGTGCCTGAGGAAAGCGGGGGCGTGGCTGCAGTTCTGGACG
GGCTGGCCGAGCTGCGCGGGATCCTTGTGCAGGGAAGAGCTGCCCTGGGCACCTGGCACCACAAGACCATGTTTT
CTAAGAACCATTTTGTTCCTGATACAAAAAAAAAAAAAAAAA

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FIGURE 5901

MSGSSSYRPKAIYLDIDGRIQKVIFSKYCNSSDIMDLFCIATGLPRNTTISLLTTDDAMVSIDPTMPANSERTP
YKVRPVAIKQLSAGVEDKRITTSRGQSAERPLRDRRVVGLEQPRREGAFESGQVEPRPREPQGCYQEGQRIPP
ELIQSVLAQVAEQFSRAFKINELKAEVANHLAVLEKRVELEGLKVVEIEKCKSDIKKMREELAARSSRTNCPCKY
SFLDNHKKLTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWEPNEMLSCLEHMYHDLGLVRDFSINPVTLRRLWF
CVHDNYRNNPFHNRHCFCAQMMYSMVWLCSLQEKFSQTDILILMTAAICHDLDPGYNNNTYQINARTELA
VRYNDISPLENHHCAVAFQILAEPECNIFSNIPPDGFKQIRQGMITLILATDMARHAEIMDSFKEKME
NFDYSNEEHMTLLKMILIKCCDISNEVRPMEVAEPWVDCLEEFYMQSDREKSEGLPVAPFMDRDKVTKA
TAQIGFIKFVLIPMFETVTKLFPMVEEIMLQPLWESRDYELKRIDDAMKELQKKTDSLTS
GATEKSRERSRDVKNSEGDCA

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FIGURE 5902

CCACGAGACATTGGCCGGCGCCGGCCTCCGCCCCCGCCTCTCCGCCAATCACCGCCCGCCTGCTCCCCCTCGCCGT
GGGTCCCCGCGAGGCCGCCACCCCGGGGTGCGCTCTCCGCCCTCGCCGCGAGTCGGGGCAGCCGCTCGCCCCCTCTT
TTCCATGTATCCGTCCAGGATCCCATGACAGATTCTGTTGTCACGTCTCCTTACAGAGTTTGAGCGGTGCTGAAC
TGTCAGCACCATCTGTCCGGTCCCAGCATGCCCTCTGAGACCCCCCAGGCAGAAGTGGGGCCACAGGCTGCCCC
CACCGCTCAGGGCCACACTCGGCGAAGGGGAGCCTGGAGAAGGGGTCCCCAGAGGATAAGGAAGCCAAGGAGCCC
CTGTGGATCCGGCCCCGATGCTCCGAGCAGGTGCACTGGCAGCTGGGCCC GGCTGCCTCCGAGTCCCCACATCAC
CACACTGCCCCGGCAAAATCTCCAAAAATCTTGCCAGATATTCTGAAGAAAATCGGGGACACCCCTATGGTCAGA
ATCAACAAGATTGGGAAGAAGTTCGGCCTGAAGTGTGAGCTCTTGGCCAAGTGTGAGTTCTTCAACGCGGGCGGG
AGCGTGAAGGACCGCATCAGCCTGCGGATGATTGAGGATGCTGAGCGCGACGGGACGCTGAAGCCCGGGGACACG
ATTATCGAGCCGACATCCGGGAACACCGGGATCGGGCTGGCCCTGGCTGCGGCGAGTGAGGGGCTATCGCTGCATC
ATCGTGATGCCAGAGAAGATGAGCTCCGAGAAGGTGGACGTGCTGCGGGCACTGGGGGCTGAGATTGTGAGGACG
CCCACCAATGCCAGGTTGACTCCCCGGAGTCACACGTGGGGGTGGCCTGGCGGCTGAAGAACGAAATCCCCAAT
TCTCACATCCTAGACCAGTACCGCAACGCCAGCAACCCCTGGCTCACTACGACACCACCGCTGATGAGATCCTG
CAGCAGTGTGATGGGAAGCTGGACATGCTGGTGGCTTCAGTGGGCACGGGCGGCACCATCACGGGCATTGCCAGG
AAGCTGAAGGAGAAGTGTCTGGATGCAGGATCATTTGGGGTGGATCCCGAAGGGTCCATCCTCGCAGAGCCGGAG
GAGCTGAACCAGACGGAGCAGACAACCTACGAGGTGGAAGGGATCGGCTACGACTTCATCCCCACGGTGTGGAC
AGGACGGTGGTGGACAAGTGGTTCAAGAGCAACGATGAGGAGGCGTTACCTTTGCCCCGATGCTGATCGCGCAA
GAGGGGCTGCTGTGCGGTGGCAGTGTGGCAGCACGGTGGCGGTGGCCGTGAAGGCCGCGCAGGAGCTGCAGGAG
GGCCAGCGCTGCGTGGTCATTCTGCCGACTCAGTGCGGAACTACATGACCAAGTTCTTGAGCGACAGGTGGATG
CTGCAGAAGGGCTTTCTGAAGGAGGAGGACCTCACGGAGAAGAAGCCCTGGTGGTGGCACCTCCGTGTTT CAGGAG
CTGGGCCTGT CAGCCCCGCTGACCGTGCTCCCGACCATCACCTGTGGGCACACCATCGAGATCCTCCGGGAGAAG
GGCTTCGACCAGGCGCCCGTGGTGGATGAGGCGGGGGTAATCCTGGGAATGGTGACGCTTGGAACATGCTCTCG
TCCCTGCTTGCCGGGAAGGTGCAGCCGTCAGACCAAGTTGGCAAAGTCATCTACAAGCAGTTCAAACAGATCCGC
CTCACGGACACGCTGGGCAGGCTCTCGCACATCCTGGAGATGGACCACTTCGCCCTGGTGGTGCACGAGCAGATC
CAGTACCACAGCACCGGGAAGTCCAGTCAGCGGCAGATGGTGTTCGGGGTGGTCACCGCCATTGACTTGCTGAAC
TTCGTGGCCGCCCAGGAGCGGGACCAGAAGTGAAGTCCGGAGCGCTGGGCGGATGTTTACCAAGGAAATATTGA
GAGAGAAGTCGGCCAGGTAGGATGAACACAGGCAATGACTGCGCAGAGTGGATTAAAGGCAAAAGAGAGAAGAGT
CCAGGAAGGGGCGGGGAGAAGCCTGGGTGGCTCAGCATCTCCACGGGCTGCGCCGTCTGCTCGGGGCTGAGCTG
GCGGGAGCAGTTTGCGTGTTTGGGTTTTTTAATTGAGATGAAATTCAAATAACCTAAAAATCAATCACTTGAAAG
TGAACAATCAGCGGCATTTAGTACATCCAGAAAGTTGTGTAGGCACCACCTCTGTACGTTCTGGAACATTCTGT
CATCACCCCGTGAAGCAATCATTTCCCTCCCGTCTTCTCCTCCCTGGCAACTGCTGATCGACTTTGTGTCTC
TGTTGTCTAAAATAGGTTTTCCCTGTTCTGGACATTCATATAAATGGAATCACAC

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FIGURE 5903

CCCGAGGGCGTCGGCAGGGTCGGCGGCGTCGGCAGCAGTGTCGACGGCAGCGGCGGCGGGTGGGAAATGGCG
GAGTATCTGGCCTCCATCTTCGGCACCGAGAAAAGACAAAGTCAACTGTTTATTTTCAAATTTGGAGCATGT
CGTCATGGAGACAGGTGCTCTCGGTTGCACAATAAACCGACGTTTAGCCAGACCATTGCCCTCTTGAACATTTAC
CGTAACCCTCAAACTCTTCCCAGTCTGCTGACGGTTTTCGCTGTGCCGTGAGCGATGTGGAGATGCAGGAACAC
TATGATGAGTTTTTTGAGGAGGTTTTTACAGAAATGGAGGAGAAGTATGGGGAAGTAGAGGAGATGAACGTCTGT
GACAACCTGGGAGACCACCTGGTGGGGAACGTGTACGTCAAGTTTCGCCGTGAGGAAGATGCGGAAAAGGCTGTG
ATTGACTTGAATAACCGTTGGTTTAATGGACAGCCGATCCACGCCGAGCTGTCACCCGTGACGGACTTCAGAGAA
GCCTGCTGCCGTGAGTATGAGATGGGAGAATGCACACGAGGCGGCTTCTGCAACTTCATGCATTTGAAGCCCATT
TCCAGAGAGCTGCGGCGGGAGCTGTATGGCCGCCGTGCGCAAGAAGCATAGATCAAGATCCCGATCCCGGGAGCGT
CGTTCTCGGTCTAGAGACCGTGGTCGTGGCGGTGGCGGTGGCGGTGGTGGAGGTGGCGGCGGACGGGAGCGTGAC
AGGAGGCGGTGAGAGATCGTGAAAGATCTGGGCGATTCTGAGCCATGCCATTTTTTACCTTATGTCTGCTAGAAA
GTGTTGTAGTTGATTGACCAAACAGTTCATAAGGGGAATTTTTTTTAAAAACAACAAAAAAAAAACATACAA
AGATGGGTTTCTGAATAAAATTTGTAGTGATAACAGT

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FIGURE 5904

MAEYLASIFGTEKDKVNCSFYFKIGACRHGDRCSRLHNKPTFSQTIALLLNIYRNPQNSSQSADGLRCAVSDVEMQ
EHYDEFFEEVFTMEEEKYGEVEEMNVCDNLGDHLVGNVYVKFREEDAEKAVIDLNNRWFNGQPIHAELSPVTD
REACCRQYEMGECTRGGFCNFMHLKPI SRELRRRELYGRRRKKHRSRSRSRERRSRSDRGRGGGGGGGGGGGGRE
RDRRRSRDRERSGRF

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FIGURE 5905

CGGAGCCGCCCGCTGAGGTCAGAAAGGAGGCGTCTGCGCTGATCGGGTCCGCCGCGGCCAGAGCCAGAGTCGCAG
CCGAGGGGAGCCGGGGCCGGAGCCCGAGCCCGAGCCGAGCCGAGCCGAGCGAGCGGGCGGAGACCGTGCCCCCG
CCTCGGCCCGCGCCGCCGCGGCCAGGCCCCGGCATGGAGGAGGAGTGCCGGGTGCTCTCCATACAGAGCCACGTC
ATCCGCGGCTACGTGGGCAACCGGGCGGCCACGTTCCCGCTGCAGGTTTTGGGATTTGAGATTGACGCGGTGAAC
TCTGTCCAGTTTTCAAACCACACAGGCTATGCCCACTGGAAGGGCCAAGTGCTGAATTCAGATGAGCTCCAGGAG
TTGTACGAAGGCCTGAGGCTGAACAACATGAATAAATATGACTACGTGCTCACAGGTTATACGAGGGACAAGTCG
TTCTTGGCCATGGTGGTGGACATTGTGCAGGAGCTGAAGCAGCAGAACCCAGGCTGGTGTACGTGTGTGATCCA
GTCTTGGGTGACAAGTGGGACGGCGAAGGCTCGATGTACGTCCCGGAGGACCTCCTTCCCGTCTACAAAGAAAAA
GTGGTGCCGCTTGCGAGACATTATCACGCCCAACCAGTTTGAGGCCGAGTTACTGAGTGGCCGGAAGATCCACAGC
CAGGAGGAAGCCTTGCGGGTGATGGACATGCTGCACTCTATGGGCCCCGACACCGTGGTCATACCAGCTCCGAC
CTGCCCTCCCCGCAGGGCAGCAACTACCTGATTGTGCTGGGGAGTCAGAGGAGGAGGAATCCCGCTGGCTCCGTG
GTGATGGAACGCATCCGGATGGACATTCGCAAAGTGACGCCGTCTTTGTGGGCACTGGGGACCTGTTTGCTGCC
ATGCTCCTGGCGTGGACACACAAGCACCCCAATAACCTCAAGGTGGCCTGTGAGAAGACCGTGTCTACCTTGAC
CACGTTCTGCAGAGGACCATCCAGTGTGCAAAAGCCAGGCCGGGGAAGGAGTGAGGCCACGCCCCATGCAGCTG
GAGCTGCGGATGGTGCAGAGCAAAAGGGACATCGAGGACCCAGAGATCGTCCGTCAGGCCACGGTGCTGTGAGGG
CCCCGCCGCTTGCCCGTGACACGCAGCGCGTTGGTGTCTCCGTGTTGTCCCTGTGAAAACATGTAACGTCTGCC
TTAGAGCCATGACCGAACTTGATATTTTTTTCTTTCATGAGTGTCCGGCATCTGCTGGTCTTCATTGTGAAACG
TGCCAGTCGTGCTTTGTGAAAAATAACAAAGTGGTCACAAAAAAAAAAAAAAAAAAAA

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FIGURE 5906

MEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAHWKQVLNSDELQELYEGLRLNNMN
KYDYVLTGYTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKVVPLADIITPN
QFEAEELSGRKIHSQEEALRVMDMLHSMGPDIVVITSSDLPSPQGSNYLIVLGSQRRRNPAAGSVVMERIRMDIRK
VDAVFVGTGDLFAAMLLAWTHKHPNNLKVACEKTVSTLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDI
EDPEIVVQATVL

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FIGURE 5907

GC GTGCTCAGTGTGCTGGGTACCAGGCGACTCCGGGACAGGGGGTCTCGGCCGTCGGCGTCATGGTTTCGCGCGT
GCAGCTCCCGCCTGAGATCCAGCTGGCTCAGCGCCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAG
GAAGCTCCCGAAATACATCGTCGCCAGGACTCAGCGGGCCGCGAGGTGGTTTTACGCACGACGAGCTGCTGAAGGT
GTGGAAAGGACTGTTTTATTGCATGTGGATGCAGGACAAGCCACTCCTCCAGGAAGAATTAGGAAGGACTATTTTC
CCAGCTCGTTTCATGCTTTTTAGACCACGGAGGCGCAGCACCTGTTCCCTTCAGGCCTTCTGGCAGACCATGAATCG
CGAGTGGACGGGCATTGACAGGCTGCGCCTGGATAAATTCTACATGCTCATGCGGATGGTCTCTGAACGAGTCCTT
GAAGGTTCTGAAGATGCAAGGCTGGGAAGAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCT
GCACCCACAGCAGCCAGGCCCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCTGGAGGAGCTGACCAAAGT
GGGCGCCGAGGAGCTTACGGCAGACCAGAACCTGAAGTTCAICGACCCCTTCTGCAGAATTGCTGCCCCGACCAA
GGATTCTTGGTTTTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCCGCTTGCCATTGA
AGACCTCCTGAATGAAGTGGACACACAGGATGAGGAGGTGGCGTCGGACAGTGATGAGTCCTCTGAGGGTGGTGA
GCGTGGAGACGCGCTGTCCAGAAGAGGTCTGAGAAGCCGCCCGCAGGCTCCATCTGCAGGGCTGAACCTGAGGC
TGGTGAGGAGCAGGCAGGTGACGACAGGGACAGTGGCGGCCCGCTTCTCCAGTTTGACTACGAGGCAGTTGCTAA
CAGACTGTTTTGAAATGGCCAGCCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAA
GCTGCAGGACCTGGCAGGAGGCATTTTCCCTGAAGATGAGATCCCAGAGAAGGCCTGCAGGCGCCTGCTTGAAGG
GAGGCGGCAGAGAAGACGAAGAAGCAGAAGCGTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAAGGTGAGAAGGA
GCCCCGAGCCCGGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGTAGGGGCCGACCCGAGGCGCGGGCAGA
GGCTGGTGAGCAGCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCAGGGGCCGTGGCCAGAGAGGGGC
TCGCCAGAGAAGGAGGACACCTCGGCCCCTGACCAGTGCCCCGAGCAAAGCGGCCAATGTCCAGGAGCCGGAGAA
GAAGAAGAAACGCAGGGAGTGATGTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCCTCGCTTGCACCGC
GGGACGAGGCTGACCGGGCTGTTCTGTAGACTCAGGACCGTGGCTCCAGAACTCCTGTGCCAGGCGGGAGGGAAAG
GGCGGCACTGGAGAGATGGGCCCATCATTAGGGGCCAGCATCCAGGAACTGACCTTTCCCCAGAGCCTCCGCC
TGTGGCTGTGATGACCTTGGGCCAGAAGGTCAAACCTCCGAAGACTGAACTCTGCCTGCAGCAGGACTGGCCGCC
CCTGCTGTGGGGGGTTTCAGAAAATAAAATGCCGCGCAGCCCTTGCCAGGGGAAGTGTGCTTCAGGTGTGTCTTA
CGGACGTGTGGGAGGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTTATATTTCATGTTTGTGGAAAAATCTT
GCAAGACATTTCTCCTTTACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCCC
TCAATCTGGGGTCTAGAGTTGTGCAAGGAATTCAGCTCCAGTAAGGCCTGGATTGCCCCGGGTGAGCGTGTGTGT
GGTGGGAAGACCTGGCTTCCGCGAGAGCCTTGTTTCTGGAGGCAGGAGCGCCCCGCCATCCTGGGTACCCGCGGG
TCCGACGGCTGCGCACCTCTTTCCCTCAGCCAGGTACCCCTCAGCGTCTCCTGCCCTCTCCCTTCACACCT
GCTGGAGCCTGTGAGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCAGGGCTTTCACC
TGATGGAACAAGGGCCTGTCTGCCGCCAGCGCTGTGGCCACAGCCTGCATAGGTGACAAGGGGCCGCTGCGTTG
GGTTTTGCCCCGATCTTCTGTTCCATGGGTGCCAGCCAGCCAGGCCGTGTGGGATCCAGCGAGAGGCCAGGGCT
TGGAGTGGGCCTGGGACCAGGAAGGACCTCTAGGCTGTGGCTGGCCTTGTGCAGACCCTGGACTGCATCCGGTTC
CCCAAAGCCCTGCTGCATTTCAGTGTCCCCCAACCCCGGCAGGTGGCACCTGGTGACACCTCCTTCAGTCCAC
TCAGCTGGGCGGCCGGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCCTGTTCTAG
GGGTTAGGGTTCTTTCCCCAAAGGAACCTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAAATCCC
AGCACTTTGGGAGGCCGAGGTGGCCAGATCACCTGAGGTGAGGAGTTTGAGACCAGACTGACCAACATGGAGAAA
CCCCATCTCTACTAAAAATACAAAATTAGCCAGGCGTGGTGGCACATGCCTGTAAATCCCAGCTACTCGGGAGGCTG
AGGCAGGAGAATTGCTTGAACCTGGGAGGCAGAGGTTGTGGTGAGCTAAGATCACGCCATTGCACTCCAGCCTGG
GCAACGAGAGGGGAAACTCTGTTTC

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FIGURE 5908

TCTATGAAACCAACATACATGGCGTTTGCATCACAGTTGGAGTCAGATGTGAGCCCGGAGGGCAGGTGTCTGGCT
TGTCACCCCGGAAGCCCTGAGGGCAGCTGTTCCCACTGGCTCTGCTGACCTTGTGCCTTGGACGGCTGTCTCAG
CGAGGGGCCGTGCACCCGCTCCTGAGCAGCGCCATGGGCCTGCTGGCCTTCTGAAGACCCAGTTCGTGCTGCAC
CTGCTGGTCGGCTTTGTCTTCGTGGTGAGTGGTCTGGTCATCAACTTCGTCCAGCTGTGCACGCTGGCGCTCTGG
CCGGTCAGCAAGCAGCTCTACCGCCGCCTCAACTGCCGCCTCGCATACTCACTCTGGAGCCAACGGTTCATGCTG
CTGGAGTGGTGGTCTGCACGGAGTGTACACTGTTACAGGACCAGGCCACGGTAGAGCGCTTTGGGAAGGAGCAC
GCAGTCATCATCTCAACCACAACCTTCGAGATCGACTTCCTCTGTGGGTGGACCATGTGTGAGCGCTTCGGAGTG
CTGGGGAGCTCCAAGGTCTCGCTAAGAAGGAGCTGCTCTACGTGCCCTCATCGGCTGGACGTGGTACTTTCTG
GAGATTGTGTCTGCAAGCGGAAGTGGGAGGAGGACCGGGACACCGTGGTGAAGGGCTGAGGCGCCTGTCCGGAC
TACCCCGAGTACATGTGGTTTCTCCTGTACTGCGAGGGGACGCGCTTCACGGAGACCAAGCACC GCTTAGCATG
GAGGTGGCGGCTGCTAAGGGGCTTCCTGTCTCAAGTACCACCTGCTGCCGCGGACCAAGGGCTTCACCACCGCA
GTCAAGTGCTCCGGGGGACAGTTCGAGCTGTCTATGATGTAACCCTGAACCTCAGAGGAAACAAGAACCCGTCC
CTGCTGGGGATCCTCTACGGGAAGAAGTACGAGGCGGACATGTGCGTGAGGAGATTTCTCTGGAAGACATCCCG
CTGGATGAAAAGGAAGCAGCTCAGTGGCTTCATAAACTGTACCAGGAGAAGGACGCGCTCCAGGAGATATATAAT
CAGAAGGGCATGTTTCCAGGGGAGCAGTTTAAGCCTGCCCCGAGGCCGTGGACCCTCCTGAACCTCCTGTCTGG
GCCACCATTTCTCCTGTCTCCCTCTTCAGTTTTGTCTTGGGCGTCTTTGCCAGCGGATCACCTCTCTGATCCTG
ACTTTCTTGGGGTTTGTGGGAGCAGCTTCCTTTGGAGTTCGCAGACTGATAGGAGTAACCTGAGATAGAAAAAGGC
TCCAGCTACGGAAACCAAGAGTTTAAGAAAAAGGAATAATTAATGGCTGTGACTGAACACACGCGGCCCTGACGG
TGGTATCCAGTTAACTCAAAACCAACACACAGAGTGCAGGAAAAGACAATTAGAACTATTTTCTTATTAAGT
GTGACTAATATTAACAAAACCTTGAGCCAAGAGTAAAGAATTCAGAAGGCCTGTCAGGTGAAGTCTTCAGCCTCCC
ACAGCGCAGGGTCCCAGCATCTCCACGCGCGCCCGTGGGAGGTGGGTCCGGCCGGAGAGGCTCCCGCGGACGCC
GTCTCTCCAGAACTCCGCTTCCAAGAGGGACCTTTGGCTGCTTTCTCTCCTTAACTTAGATCAAATTTTAAAAA
AAAAAAAAA

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FIGURE 5909

MGLLAFLKTQFVLHLLVGFVVFVVSGLVINFEVQLCTLALWPVSKQLYRRLNCRSLWSQLVLMLEWWSCTECTL
FTDQATVERFGKEHAVIILNHNFEIDFLCGWTMCERFGVLGSSKVLAKKELLYVPLIGWTWYFLEIVFCKRKWEE
DRDTVVEGLRRLSDYPEYMWFLLYCEGTRFTETKHRVSMEVAAAKGLPVLKYHLLPRTKGFTTAVKCLRGTVA
YDVTLNFRGNKNPSLLGILYGKKYEADMCVRRFPLEDIPLDEKEAAQWLHKLYQEKDALQEIYNQKGMFPGEQFK
PARRPWTLLNFLSWATILLSPLFSFVLGVFASGSPLLILTFLGFVGAASFGVRRLLIGVTEIEKGSSYGNQEFKKK
E

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FIGURE 5910

GCGGCACACGTGCGACGGCCGTGATGAAGTTCGCTTACCGGTTTTCAAATTTGCTGGGTACGGTGTACCGGCGTG
GGAACCTAAATTTTACCTGCAATGGAAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCACTGTATTGACCTTA
AAAACAACAAATCTGACACGCTGCCCCTGGCCACTCGGTACAACGTCAAGTGCGTGGGGCTGTCCCCGGATGGCC
GCCTCGCTATCATCGTCGATGAAGGGGGCGATGCGCTGCTGGTCAGCCTGGTCTGCAGGTCTGTGCTGCACCACT
TCCACTTCAAGGGCTCTGTGCACAGTGTGTCTTCTCCCCTGATGGCAGGAAGTTTGTGTGCACAAAGGGTAACA
TTGCCAGATGTATCATGCCCCCTGGGAAGAAGCGGGAGTTCAACGCCCTTCGTTCTGGACAAGACCTATTTTGGGC
CCTACGATGAGACCACCTGCATCGACTGGACGGATGACTCCAGGTGCTTTGTGGTTGGGAGCAAAGACATGTCCA
CCTGGGTGTTTCGGAGCCGAGCGCTGGGACAACCTCATCTACTATGCACTGGGGGGACATAAGGATGCCATCGTGG
CCTGCTTCTTTGAATCCAACAGCCTGGACCTGTACTCACTCAGCCAGGACGGAGTGCTGTGCATGTGGCAGTGTG
ACACGCCCCCGAGGGCTTGCGGCTGAAGCCCCCTGCGGGCTGGAAAGCAGACCTGTTGCAGCGGGAGGAGGAAG
AGGAGGAGGAGGAGGACCAGGAGGGCGACAGAGAGACCACCATCCGGGGAAAAGCCACTCCGGCCGAGGAGGAGA
AGACAGGAAAAGTGAAGTACTCACGGCTGGCCAAGTACTTCTTCAATAAAGAAGGGGATTTTAACAACCTGACAG
CTGCAGCATTTTATAAGAAGTCTCACCTCTTGGTCACTGGCTTTGCTTCTGGAATCTTCCATCTTCATGAGCTGC
CAGAGTTTAACTCATCCACTCCCTGAGCATTTCAGATCAGAGCATCGCCTCAGTGGCCATCAATAGCTCGGGGG
ACTGGATTGCTTTTGGCTGTTTCAAGCCTGGGCCAGCTGCTGGTGTGGGAGTGGCAGAGTGAGTCTACGTGCTCA
AGCAGCAGGGCCACTTCAACAGCATGGTGGCCCTGGCCTACTCGCCGACGGACAGTACATCGTGAAGTGGCGGGG
ACGACGGCAAGGTGAAGGTGTGGAACACCTCAGCGGCTTCTGCTTCGTCACTTTTACGGAGCACTCCAGCGGGG
TGACCGGTGTGACCTTTTACTGCCACCGGCTACGTTGTGGTGACCTCATCCATGGACGGGACCGTGCGAGCCTTTG
ACCTTTCACAGGTACCGAACTTCCGCACCTTACCTTCTCCACGCCCCACCCAGTTCTCCTGTGTGGCGGTGGATG
CGAGCGGTGAGATCGTCTCTGCAGGGGGCGAGGACTCCTTTGAGATTTTCTGTGTGGTCCATGCAGACAGGCAGGC
TCCTTGATGTTTTGTCTGGACACGAAGGGCCATCAGTGGTCTGTGTTTTAACCAATGAAGTCCGTCTTGCCCA
GTGCCTCCTGGGACAAGACAGTGCGCCTATGGGACATGTTTGACAGCTGGAGGACCAAGGAGACGCTGGCCCTGA
CCTCTGATGCTCTGGCTGTGACTTTTCGCCCTGATGGTGGCGAGCTGGCTGTGGCCACACTGAACTCACAGATCA
CCTTCTGGGACCCTGAGAACGCGGTGCAGACGGGCTCCATTGAGGGCAGGCATGACCTCAAGACTGGCAGGAAGG
AGCTGGACAAGATTACAGCCAAGCACGCGGCCAAGGGGAAGGCCCTTACCGCCCTGTGCTACTCTGCAGACGGCC
ACAGCATCCTGGCGGGAGGCATGTCCAAGTTCGTGTGCATCTACCACGTCCGTGAGCAGATTCTCATGAAGAGGT
TCGAGATCTCTTGCAACCTGTCTTTGGACGCCATGGAGGAATTTTGAACCGAAGAAAAATGACAGAGTTTGGCA
ACCTGGCACTAATTGATCAGGATGCTGGGCAGGAGGATGGAGTCCGATACCACTGCCAGGCGTCAGGAAAGGTG
ACATGAGTTCTCGGCACTTCAAACCTGAGATCAGGGTGACCTCACTCCGCTTCTCTCCCACTGGGCGCTGCTGGG
CGGCCACCACCAGGAGGGACTCCTCATCTACTCCCTGGACACCCGCGTGTCTTTGACCGTGTGAGCTGGACA
CCAGCGTCACCCCCGGGAGGGTGCAGGAGGCACTGCGCCAGCAGGACTTACCAGGGCCATCCTCATGGCCCTCC
GGCTCAACGAGAGCAAACCTGGTGCAGGAGGCCCTGGAGGCGGTGCCAGGGGCGAGATTGAAGTGGTCACCTCCT
CCCTTCTGAACTGTATGTGGAGAAAGTGCTGGAGTTTTTAGCTTCTCCTTTGAAGTGTCTCGCCACCTGGAAT
TCTACCTCCTCTGGACTCACAACTGCTCATGTTGCACGGACAGAAGCTGAAGTCCAGAGCCGGGACGCTGCTGC
CTGTCACTTCACTTCTCCAGAAGAGCATCCAGCGGCACCTGGACGACCTGTGCAAACTCTGTAGCTGGAACCACT
ATAACATGCAGTACGCACTAGCAGTTTCCAAGCAGCGGGGCACAAAACGCTCCCTAGACCCGCTGGGAAGTGAGG
AGGAGGCAGAAGCATCTGAAGATGACAGCCTGCATCTGCTTGGAGGAGGAGGCAGAGACTCAGAAGAAGAGATGC
TGGCCTAGAGCCAGCCGTTGCAGCGTTGGATTGTGCCGGCTAAGACCTGCCAGGGAGATGGGACCCTTGTGCCA
CCTGGGCCAGCAAAGAGGAGGGGTCCAGAGAACAGCTGAAATACTGTCACTAGTGGTAGTGACTTGCTTTTCTGT
TGCACACATGTAGCCCATCAGGACAGCGAGCCGACGGGTACGCCAGGGGCGGCACGCACTGGCACCTGGCCCC
AGGAGCGGGGCGGTGTGAACGGTGATGAATGTTGAAATGCGTCTCAGAGAGGTATTACATGAACCTTTGTATGA
GACTTATTTATATCTTTAACATAAAGGTTTGATAAAGAAGTTAGGGATTAAAAAAAAGATGGAGTTTTCTAACGT
GAGGATGAAGTCTACACTTCAGATTAAAAAGGGTTATGTTGTA

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FIGURE 5911

CCCATCTCCACCCCTCCCCTGAACCCCACTCCCCACTGAGGTCCCCAAACCCACCCCTCACTCCACCCTGAGGG
CCCCATCCTCTGAACCCCAATCCCCAGCCCCACTGAGCTCTTAACCCTCCCCACCTGAGGGTTCCCTTTCCCTG
CCCGTCCCCCAGCTTCCTAGCTCCCCACCCCAAGTGACCCCCCGCAGCTCCTCGCCCCCTCCCACTGCAAACCGGC
ACTGAAGGGCTGCCCCGCCCCCGCCCCCTCCCCGCCCCCGCGGGACACGCCAGATTCTTTGCCCCCATAGCCTGG
TGACCTCTGGCCACCCGCTGTCCCAGGTGGGCTGGATCCTTCCAGCTCATTCTTTGCCTGCGCCGTCCCTCGTT
CCATGGCCCAGTCCTCCCCGGGGACCCTGAGCCTGGAAGCCCCGGACCCTGGAACCTTGAACCCACCAGCTGGC
TGTACCCGGAGCCGTGGCAGCAGCCCTCATCCCCATGGCGGCCATCCAGCCCTGGACCCAGAGGCCGAGCCCAG
CATGGACGTGATTTTGGTGGGATCCAGTGAGCTCTCAAGCTCCGTTTCACCCGGGACAGGCAGAGATCTTATTGC
ATATGAAGTCAAGGCTAACCAGCGAAATATAGAAGACATCTGCACTGCTGCGGAAGTCTCCAGGTTCCACACACA
GCACCTCTGTTTGAAGGGAGGGATCTGCGCCCCATGTAAGGACAAGTTCTGGATGCCCTCTTCTGTACGACGA
TGACGGGTACCAATCCTACTGCTCCATCTGCTGCTCCGGAGAGACGCTGCTCATCTGCGGAAACCTGATTGCAC
CCGATGCTACTGCTTCGAGTGTGTGGATAGCCTGGTCGGCCCCGGGACCTCGGGGAAGGTGCACGCCATGAGCAA
CTGGGTGTGCTACCTGTGCCTGCCGTCTCCCGAAGCGGGCTGCTGCAGCGTCGGAGGAAGTGGCGCAGCCAGCT
CAAGGCCCTTCTACGACCGAGAGTCGGAGAATCCCCTTGAGATGTTCGAAACCGTGCCTGTGTGGAGGAGACAGCC
AGTCCGGGTGCTGTCCCTTTTTGAAGACATCAAGAAAGAGCTGACGAGTTTGGGCTTTTTGGAAAGTGGTTCTGA
CCCGGGACAACCTGAAGCATGTGGTTGATGTACAGACACAGTGAGGAAGGATGTGGAGGAGTGGGGACCCCTCGA
TCTTGTGTACGGCGCCACAGCTCCCCTGGGCCACACCTGTGACCGTCCCTCCAGCTGGTACCTGTTCCAGTTCCA
CCGTTTCTGTCAGTACGCACGGCCCCAAGCCAGGCAGCCCCAGGCCCTTCTTCTGGATGTTCTGTGGACAATCTGGT
GCTGAACAAGGAAGACCTGGACGTGCGATCTCGCTTCTGGAGATGGAGCCAGTACCATCCAGATGTCCACGG
CGGATCCTTGCGAATGCTGTCCGCGTGTGGAGCAACATCCAGCCATAAGGAGCAGCAGGCACTGGGCTCTGGT
TTCGGAAGAAGAATTGTCCCTGCTGGCCCAGAACAAGCAGAGCTCGAAGCTCGCGGCCAAGTGGCCCACCAAGCT
GGTGAAGAACTGCTTTCTCCCCCTAAGAGAATATTTCAAGTATTTTCAACAGAACTCACTTCTCTTTATTAAT
GAGTCACTATACTGTGAAGAAAAAGACTTTTCTAGAACAAAGGCAACTTTCCTC

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FIGURE 5912

MAAIPALDPEAEPSMDVILVGSSELSSSVSPGTGRDLIAYEVKANQRNIEDICICCGSLQVHTQHPLFEGGICAP
CKDKFLDALFLYDDDGYSYCSICCSGETLLICGNPDCTRCYCFECVDSL VGPGTSGKVHAMSNNVCYLCLPSSR
SGLLQRRRKWRSQKAFYDRESENPLEMFETVPVWRRQPVRVLSLFEDIKKELTSIGFLESGSDPGQLKHVVDVT
D TVRKDV EEWGPF DLVYGATAPLGHTCDRPPSWYLFQFHRFLQYARPKPGSPRPFFWMFVDNLVLNKEDLDVASR
FLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSSRHVALVSEEELSLLAQNKQSSKLA AKWPTKLVKNCFLPLREY
FKYFSTELTSSL

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FIGURE 5913

GCGACGCGGCGCAGGCGGCGGGAGTGCGAGCTGGGCCCCGTGTTTCGGCCGCCGCCATGGCCGCGGTGGACCTGGA
GAAGCTGCGGGCGCTCGGGCGCGGGCAAGGCCATCGGGCTCCTGACCAGCGGGCGGCGACGCGCAAGGTCCCTTGAC
AAGCCCACCAGGCCCCCTGCTGAGATGGCTGTGACCTGGGCTGACCCGCCAGTGGCACATTGACTCCGCCTGG
AGCTGGGGAGACCAGAGAGGCCCTGTGGTTGGACGGTGGCCTGGGTGCGCTGCTCCTGCCCTCTCCTTGCCCTGC
CTCAGCTGCTGCCTGCCAGAGGCGTGGCACCTCACCTCACACCTGCTCCTGCTGCTGAGCCCCACGCCAAGCTG
GAGAGCGGATGAGAAGCATGTGTAACCAGGGTAGAGGTGAGAGTCTCTCGTGGGGGTCTCCATGTTCAAGGGA
GCTGCCGAGGCTTGAGCAGGAGCCCCCAGCAGGAACTGGCTTTGCCAAGGCCCCCGCTGGGACAGACTGTTTCT
TTCAGTGCAGTCTGGGAGCCGAGGGCAAGGGGACAGGAAAGAGGAAGTGACCTCAGAGCCTGGTGGCACCAGCA
TCATGTCCAGGCTGGGGGGCATGAACGCTGCTGTCCGGGCTGTGACGCGCATGGGCATTTATGTGGGTGCCAAAG
TCTTCTCATCTACGAGGGCTATGAGGGCCTCGTGGAGGGAGGTGAGAACATCAAGCAGGCCAACTGGCTGAGCG
TCTCCAACATCATCCAGCTGGGCGGCACATCATTTGGCAGCGCTCGCTGCAAGGCCTTTACCACCAGGGAGGGGC
GCCGGGCGAGCGGCTACAACCTGGTCCAGCACGGCATCACCAACCTGTGCGTCATCGGCGGGGATGGCAGCCTTA
CAGGTGCCAACATCTTCCGCGAGCGAGTGGGGCAGCCTGCTGGAGGAGCTGGTGGCGGAAGGTAAGATCTCAGAGA
CTACAGCCCGGACCTACTCGCACCTGAACATCGCGGGCCTAGTGGGCTCCATCGATAACGACTTCTGCGGCACCG
ACATGACCATCGGCACGGACTCGGCCCTCCACCGCATCATGGAGGTTCATCGATGCCATCACCACCCTGCCCAGA
GCCACCAGAGGACCTTCGTGCTGGAAGTGATGGGCCGGCACTGCGGGTACCTGGCGCTGGTATCTGCACTGGCT
CAGGGGCGGACTGGCTGTTTCATCCCCGAGGCTCCACCCGAGGACGGCTGGGAGAACCTTCATGTGTGAGAGGCTGG
GTGAGACTCGGAGCCGTGGGTCCCGACTGAACATCATCATCATCGCTGAGGGTGCCATTGACCGCAACGGGAAGC
CCATCTCGTCCAGCTACGTGAAGGACCTGGTGGTTAGAGGCTGGGCTTCGACACCCGTGTAACCTGTGCTGGGCC
ACGTGCAGCGGGGAGGGACGCCCTCTGCCTTCGACCGGATCCTGAGCAGCAAGATGGGCATGGAGGCGGTGATGG
CGCTGCTGGAAGCCACGCCTGACACGCCGGCCTGCGTGGTGACCTCTCGGGGAACAGTCAGTGCGGCTGCCCC
TCATGGAGTGCGTGAGATGACCAAGGAAGTGAGAAAGCCATGGATGACAAGAGGTTTGACGAGGGCCACCCAGC
TCCGTGGTGGGAGCTTCGAGAACTGGAACATTTACAAGCTCCTCGCCCACCAGAAGCCCCCAAGGAGAAGT
CTAATTCTCCCTGGCCATCCTGAATGTGGGGGCCCCGGCGGCTGGCATGAATGCGGGCGTGCCTCGGCGGTGC
GGACCGGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCCTAGCCAAGGGTCAGGTGC
AAGAAGTAGGCTGGCAGCAGCTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAAGAGGACCTGC
CCAAGGGCCAGCTGGAGTCCATTGTGGAGAATCCGCATCTATGGTATTACGCCCTGCTGGTGGTGGTGGGT
TTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCATCGTCATGTGTG
TCATCCCAGCCACCATCAGCAACAACGTCCCTGGCACCGACTTCAGCCTGGGCTCCGACACTGCTGTAAATGCCG
CCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTTCATCGTGGAGACCATGG
GGGTTACTGTGGCTACCTGGCCACCGTGACTGGCATTGCTGTGGGGGCCGACGCCGCCCTACGTCTTCGAGGACC
CTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACATTCAGAGGGGCC
TGGTGCTGCGGAACGAGAAGTGCCATGACTACTACACCACGGAGTTCTGTACAACCTGTACTCATCAGAGGGCA
AGGGCGTCTTCGACTGCAGGACCAATGTCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCCTTTGACCGGA
ACTATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGTTGTGCGAGAAGCTGCGCGAGGTTTACCGCAAGGGAC
GGGTGTTGCGCAATGCCCCAGACTCGGCCCTGCGTGATCGGCCCTGAAGAAGAAGGCGGTGGCCTTCAGCCCCGTCA
CTGAGCTCAAGAAAGACACTGATTTGAGCACCAGCATGCCACGGGAGCAGTGGTGGCTGAGCCTGCGGCTCATGC
TGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCCTACGTGTGAGGGGAGCTGGAGCACGTGACCCGCCGCA
CCCTGAGCATGGACAAGGGCTTCTGAGGCCAGCCATGCCACGCCCTCCCGAGCCCCACCCATGCCAGCGCAG
CGCCAGGGCTCAGATGGGGCCTGGGCTGTTGTGTCTGAGGCTGCAGGAGGTGGGGGCTGCGTCCCTGCTCAGC
CCATCCCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCTCCCTCGGGCTGGTGTCTTGAGACCAGCCTGCCAGGCC
CTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCTGCCAGGGGACGTGGCGCTGTGCGGTGTTTGGAG
GCTGCTGCCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCATGCTGGGCTCACTACATGGGCCAGCC
CTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGGATGCCCTGGCCCTGCCCTCACT
GTGACCTGCTCCTGCCACGTGCAGCACCTGTACCTTTTCTAGAAATAAAATCACCTGACTGTGGGGTGATC
GGTCTCCGG

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FIGURE 5914

GTGGCACGGGCAGGGCCCAGTGCACAGGGATCTGGGCATGGCGAGGGGATGAGAAGCTGTGGATACAAGCCCAGG
ACATGGGGTGGCCCCGCGGGGGCTGGGAAGGCTGGCAGATGTTGGGTGTGGGTACCACCCCCCTGCAGGCGTCCT
GGCGGCCGGGTGAGGCTGGATTGGACGTCTGGGTTCCCATGCGTGCCTCCACCCGCTACCAAGGTGGCCAACCCCT
CCCTTGAGCTGGATGCCGCGCCACGTGCTTTGCTGCACGGGCTGGCGTGGCCTCGTGTTGTGTTGGGGGTCTCGCA
CCTTCTGTGGAAGGTGCCCTGCCTGGCATGCGCGGTGTCTGCTGCCTCATGGCTGAGCTTCCATCGGGCCGTGTG
CCTGTGACCAGCCTCCTGGGCTCTGTACGGCTGCGCTGTGGCTGTACGCCGTGGCGCTGCAGGGCTGTGCATGG
TGTGACCCGAATCCCTTCCAGGAGCTTCGAGAACAACCTGGAACATTTACAAGCTCCTCGCCCACCAGAAGCCCC
CAAGGAGAAGTCTAACTTCTCCCTGGCCATCCTGAATGTGGGGGCCCCGGCGGTGGCATGAATGCGGCCGTGCG
CTCGGCGGTGCGGACCGGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCTAGCCAA
GGGTGAGGTGCAAGAAGTAGGCTGGCACGACGTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAA
GAGGACCCTGCCCAAGGGCCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTCACGCCCTGCTGGT
GGTCGGTGGGTTTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCAT
CGTCATGTGTGTCATCCAGCCACCATCAGCAACAACGTCCCTGGCACCGACTTCAGCCTGGGCTCCGACACTGC
TGTAATGCCGCCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTTCATCGT
GGAGACCATGGGGGGTTACTGTGGCTACCTGGCCACCGTGACTGGCATTGCTGTGGGGGCGGACGCCGCCCTACGT
CTTCGAGGACCCTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACAT
TCAGAGGGGCTGGTGTGCGGAACGAGAAGTGCCATGACTACTACACCAGGAGTTCTGTACAACCTGTACTC
ATCAGAGGGCAAGGGCGTCTTCGACTGCAGGACCAATGTCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCC
CTTTGACCGGAATATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGGTTGTGCGGAGAAGCTGCGCGAGGTTTA
CCGCAAGGGACGGGTGTTTCGCAATGCCCCAGACTCGGCCTGCGTGATCGGCCTGAAGAAGAAGCGGTGGCCTT
CAGCCCCGTCACTGAGCTCAAGAAAGACACTGATTTGAGACACCGCATGCCACGGGAGCAGTGGTGGCTGAGCCT
GCGGCTCATGCTGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCCTACGTGTGAGGGGAGCTGGAGCACGT
GACCCGCCGCACCCCTGAGCATGGACAAGGGCTTCTGAGGCCAGCCATGCCACGCCCCCTCCCCAGCCCCACCCA
TGCCAGCGCAGCGCCAGGGCTCAGATGGGGCCTGGGCTGTTGTGTCTGGAGCCTGCAGGCAGGTGGGGGCTGCGT
CCCTGCTCAGCCCATCCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCTCCCTCGGGCTGGTGTCTTGAGACCAG
CCTGCCAGGCCCTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCCTGCCAGGGGACGTGGCGCTGTC
GGTGTGTTGAGGCTGCTGCCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCCATGCTGGGCTCACTAC
ATGGGCCAGCCCTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGGATGCCCTGGC
CCTGCCTCACTGTGACCTGCTCCTGCCACGTGCAGCACCTGTACCTTTTCTAGAAATAAAATCACCCCTGACTG
TGGGTGCATCGGTCTCCGG

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FIGURE 5915

CCGCGCAGTCTGTACCCGCCCGGGATCAGGAGGCCGGGGGCGCCCGCGGTCTGGGCCTGGGCGGCCGCATGAAGC
TGACGCGGAAGATGGTTCTGACCCGAGCCAAGGCCTCGGAGCTGCACAGCGTGCGCAAGCTCAACTGCTGGGGCA
GCCGCCTCACAGATATCTCCATTGCCAGGAGATGCCAGCCTGGAGGTGATCACGCTCAGTGTCAACAGCATCT
CCACCCTGGAGCCTGTGAGCCGGTGCCAGCGCCTGAGTGAGCTGTACCTGCGGAGGAACCGCATCCCCAGCCTGG
CTGAGCTCTTCTACCTGAAGGGGCTGCCGCGTCTGCGGGTGCTGTGGCTGGCCGAGAACCCGTGCTGCGGCACCA
GCCCCCACCCTACCGCATGACCGTGCTGCGCACCCCTGCCGCGCCTACAGAAGCTGGACAACCAGGCTGTGACGG
AGGAGGAGCTGTCCCGTGCACTGAGTGAGGGAGAGGAGATCACTGCGGCCCCAGAGAGAGAGGGCACAGGCCACG
GCGGCCCCAAGCTATGCTGCACACTGAGCTCCCTCAGCTCCGCTGCTGAGACTGGCCGGGACCCGCTGGACAGCG
AGGAGGAGGCAACCAGCGGCGCCAGGATGAACGTGGCCTGAAGCCGCTTCCCGGGGCCAGTTTCCTTCCCTCT
CAGCCAGGGATGCCTCGAGCAGCCACAGGGGCGAGAACGTCTGACTGCCATCCTGCTGCTGCTGCGGGAGCTGG
ATGCAGAGGGGCTGGAGGCCGTGCAGCAGACTGTGGGCAGCCGGCTGCAGGCCCTGCGTGGGGAAGAGGTGCAGG
AGCACGCCGAGTGAACCGCAGGACCTGAACGCCGCTCCAGCCTCCACGGGGACCCAGCGTCTTCCCGACCCCCG
GGAGCTGGAGGGTGGCTGCCATGGCCGCGAGCCCCGGCCCCACACAAAAGCCTCCCGGTTTGCCACATCGGCCGA
GGGCAGGAGTGGGTGTTAGGTACTGGCTAACCGGGGCGGTGGAGATGCCTGTCTACACCAGTCTGTCCCCAGGA
CTCCCCTTCTGTGGTCTGGAGGTTCTAGGCTGGCCTGGGCTCTTAAAGGGAGGATTTTGCAGGCTGTCTCCCTA
ATAAAAGATTTTCCCAAGGTTGATCTGGAGGTGACGTTTCCCAAGGCATGGTTGTGACAGTCTTCTGAAAGCAA
GGGCCGTTTCTCCACAGAATGAGGAGGTCTTACGGATGGCTTTGCCGATTCCAGCCCTTGGTCCTTGATAGAT
TTCTGTTGGGCAAGGGGAGACTTCGAGAATGCTGGCACCCATAGCGACATCTGCCCTGAGCTGCTCAGCAGGCAGG
CAGCAGCCTCCCGCACCCATGGGAGAGAGTTTTGTCTTGGCCGGGCTGGGCAGGTGCGCCTTCCTTTCTCTC
TCCTGTGAAGAACTGCAGGAGGGCCCTCAGCTGTGAGGTTGTGGATGAACAGGCCTGTTGCCCCGGGGTCCGGG
CCTGGCACAGGAAGCAGCTAGACTAGGGGAGTCTTGGAGCATCTGAGAGGGGTTTTCTTCTCTGCGGAAGAGT
CGCAAGTCTTATGAGGATGCCACAATCTGGGCAGTGACCCGTGGCCCTGGGGACCTTCCTAGTGCCCCCAAAAC
CAAGGAAGCATTACGTGAGATGGGGAGTCAGCCTTCCAGCTGGTGTGTAGGAAAGCCAGGTCCCTGGGCCCTTG
TCCCATGTGGGGTTGAGATCCAGATCTCCATGAGATATTCCCATCCTCCGCCGAGCGGTGATGCGTGACCGTGTG
TGCAGGCCGCTGTTCTCCCAAGCTCGGGGCCATGCCGTGCCACCGTCACCAGAGCCAGCTGCAGCACTGGGGCAG
CCACTGTCGCCGGAAGCTTGGGGAAGCCAGGGTGAAGACAGTCACTCATCCGTGCAAGCTCTCCAGAAGGGATGCA
AGCTCTCCAGAAGGGGTGTGATCTCTGAGCAGTGGGGAGTGGAGTCACCACTCGGGACATAGAGGGTGGACAGTT
CAGGCCTGTGTCTGCTCCTTGGGACTGTGGAGTGGGTGCCCTCAGTAAAGCGCTTTGTTGGAATGGTAAAAAA
AAAAAAAAAAAA

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FIGURE 5916

MKLTRKMLTRAKASELH SVRKLNCWGSRLTDISICQEMPSLEVITLSVNSISTLEPV SRCQRLSELYLRRNRIP
SLAELFY LKGLPRLRV LWLAENPCCGTSPHRYRMTVLRTL PRLQKLDNQAVTEEELSRALSEGEEITAAPEREGT
GHGGPKLCCTLSSLSSAAETGRDPLDSEEEATSGAQDERGLKPPSRGQFPSLSARDASSSHRGRNVLTAILLLLR
ELDAEGLEAVQQT VGSRLQALRGEEVQEHA E

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FIGURE 5917

CGCGCGGCTGAGGCGAGGTCGCTCGGCGCAGCTGTTGCGGGGCCATGGCGGGGACCGCGCTCAAGAGGCTGATGG
CCGAGTACAAACAATTAACACTGAATCCTCCGGAAGGAATTGTAGCAGGCCCATGAATGAAGAGAACTTTTTTG
AATGGGAGGCATTGATCATGGGCCAGAAAGACACCTGCTTTGAGTTTGGTGTTCCTGCCATCCTGAGTTTCC
CACTTGATTACCCGTTAAGTCCCCAAAGATGAGATTTACCTGTGAGATGTTTCATCCCAACATCTACCCTGATG
GGAGAGTCTGCATTTCCATCCTCCACGCGCCAGGCGATGACCCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGA
GTCCTGTGCAGAGTGTGGAGAAGATCCTGCTGTGCGTGGTGAGCATGCTGGCAGAGCCCAATGACGAAAAGTGGAG
CTAACGTGGATGCGTCCAAAATGTGGCGCGATGACCGGGAGCAGTTCTATAAGATTGCCAAGCAGATCGTCCAGA
AGTCTCTGGGACTGTGAGACCTGGCCTCGCACAGGCGCGCACACACCGCCAAGCAGCTCAGCATTTCTCCCCGGC
ACACTTAGTGACAGTGATGCTCTGTGCTGGTACCAAACAAGGCAGACTTGCAAGAACCATGGCATCTTTTTTTTT
TTTCAAACCTTTCTACTTCAAACAGGCTTCTCTTCTGAAATGATGACTTAATGTGCAATATTGACAGCTTACTG
CAGTTTTACAGTATTCCTCACAAAGGGCTTCAGGTAGATTATCAGAGCTGTCAGCACTACCTCTCCCCGCTGAAA
CCAGCAGTTCATGGCTTCCTGTGGATTCCCTCCCTCCCTGGAGTGTTGAGGGGGTTGTACCTGCCAGACTTCCAG
GGGACGATGGAATACCCAGAACGCTCCTTCTGAAGAAATGGGGCCCTGTAGCTGCAGCACAGGGGAAGGGCCCGG
CACCCTTTCTGGGTCTTCTGTTCCCTGTGGGCCCCATGAGGAGTCCATTACTTCTTTCTTCTTCTCATATTT
TACAGGCAGATGCTTTTCTTATAATCTAATTACATCTTTTCATTTGTTATATATTACAAACCATCACACTTAGAA
ATACTTCCAGGAAATGCTTTTTTGAAGTGTGAATTAATAAGAAATGGGGTAAATAGAAAAGAAATTTATTGCTGA
TTGGCCAGGTGCGGTGGTTCGTGCCTGTAATCCAGCTCTTTGGGAGGCCAAGGCAGGTAGATCACAAAGGTCAGG
AAATTGAGACCATCCTGGCTAATACAGTGAAACCCCATGTCTGTCTAAAATTACAAAAAATTAGCTGGGCGTGGTG
GTGCACGCCTGTAGTCTCAGTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTAGCA
GTGAGCTGAAGTCCCGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCAGTCTCAAAAAGAAAAAGAAAT
TTATTGCTGATCACAAAGGACAGACAGTTTTTTCCCGACCATCTCATCAAAGATTTACGTTTGTATATTAGTAAC
TAGTGCACTACTAGAGCAGGTGCAGGTGAGGTCTTTAAAGTTTCAATGAAAGTTTCTTCTGGATCTACAGAAAAA
ATTTTTTTTTTCAATCTAAAACTGGAAATCTAGGGTTTTTGTACATTTTGGATGCACTGGGAATTTATTAGC
ACAAAATCATTCTTTGCAACTCAAAATTCAGAAGGGACTCTACCATATCTTAGCTCAGAGCACAGAGGAGTGCCT
TATCCCACACTTGACTGGGCTGTGGAGGTGGGCATGTGGGCCCCCTGGGCCAGGCTGGGGACAGAGCCCTTGTT
TTGTGACTTAGGATTTTGATGTGGTTCCCATGTTCTCTAACAGGGCCAGCTGAGCAGCACAGGCCAGGAGGCCAC
AGTGTAAGCAATAACAGATCTGCCACATGCAGAAGCAAATATCAGGCCTGTGCGCACAGGGCGGCATTAAATAG
GAATTTCTATTTTTGAAATAAGGGATGGTCTATGAGGCATACAGTAGATTTGATGTGATCCTTTTCTCCCTCCCT
TCCATAATGGATCGTGGTCTGTGTGACTGAACCCACACAGAGTGTCATGGGTGACAGTTTCTGGTTGAAGTAGCT
CCACGCCGCTGGCTTCTGTGGACAGCAGATTCTTTTCTTCTCACAAAGGGCTCATTAAATTTGGAGGCTGGGTG
CTGTGGCTCACGCCTGCAATCCCAGCACTTTGGGAGACTGAGGCGGGCGGATCATGAGGTCAGGAGATCGCGACC
ATCCTGGCTAACAGTGAAACCCCTGTCTCCACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTA
GTCCCAGCTACTCTGAAGACTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGAGTGAGCTGAGATC
ACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAATGGAACGCAG
GGCAAGAACTCGTATTTGGAAGGAGATGGGGGAAAGGAGCGGTATTATACCTATGTTGTATTTGCAGGCAAATGA
GATGGAGCCCTCTCTGTAAAGAGAGTCAATTTGTGCAAGTAGACGGGTCTGTGGGTGCAGGCCCTGGAGGGGCA
CACAATTGCCTGGAGGCTTCTGTGAGATCGGGAGAGGGAGGAGAGGCAGTCTCTTGACAAAATAAGTATTTTAA
TTCATTTGTATTTATTAATGAAAAACAATCCCATGGTGTCCCTGTTGTGTGGTGGAACCTAATGACTGTTGAA
ATAAAGTTCTGTGTTTTCCCTGCCCTGC

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FIGURE 5918

MAGTALKRLMAEYKQLTLNPPEGIVAGPMNEENFFEWELIMGPEDTCFEFGVFPAILSFPLDYPLSPPKMRFTC
EMFHPNIYPDGRVCISILHAPGDDPMGYESSAERWSPVQSVEKILLSVVSMLAEPNDESGANVDASKMWRDDREQ
FYKIAKQIVQKSLGL

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FIGURE 5919

AGCCACGTGACCCCCGTGCCGGCCAACGGGTGCGCCGGGATTGGGGGATAAAGCGCGGCCCCGCGCACAGTTGC
GGCGGGAGAGCGGGCGGGGCCGAGAGCGTGA CTGCCCCGCTCCGCGCTGCTTCCCCCGCGCCGCTCCCCGCGCCG
CTCGCGCAGCCATGTCCGAGGAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAGGTGG
CCGGGCAGGACGGCTCCGTGGTGCAGTTCAAGATCAAGAGGCACACGCCGCTGAGCAAGCTGATGAAGGCCTACT
GCGAGAGGCAGGGCTTGTCAATGAGGCAGATCAGATTCAAGTTTCGACGGGCAGCCAATCAATGAAACTGACACTC
CAGCACAGCTGGAGATGGAGGACGAGGACACCATCGACGTGTTCCAGCAGCAGACGGGAGGTGTGCCGGAGAGCA
GCCTGGCAGGGCACAGTTTCTAGAGGGCCCGTCCCCAGCCGGGGCCGTCCATCCTCGCATTGCTGTTGAATGGTG
AGCACGTGACCATGCCGACCACAAAGGTGTCTGCGGAACTCGAGGACATTACCCACGATGATTTTTCTCTCTTT
GATGTACTTCAAGTGCAACTCAAACTATATCTGCAGGGATGAATCTGTAACCTAAATTGGGCCAATCAGAATTG
TTATCTTTGTTTCAGGTAAAATGAGTTGCAAGATATTGTGGGTACTTTTGTGTGCTCATTTGTGTTTTCCCCCCT
CCTACAACATTTTTTTAACCCTAAAATTATAGCCTGAATGTTTCGCTTTTAGTCTGGCCAGGGATCTGACTCCTGA
GTTGGTTGCCTCTCCCTGCTCACTCCAGTCACATAGAGAATTGGTGTTTCCCGCAGTGGGGATGCAGCTGTTGG
ACAGGTATTGGGGCAAGGTTGGTAGGGAGGACAGACTGTCACTTGCTGTTACAGGCACAGGTGATTAAAATGCT
AAATATTGCAAAATTTAAGCTTTGTCAGTATATGGAAAAGTTGAAGGGAAAATACTGGAATGCTTCTTCAAAGGTT
AAAAAATAACCGAGTCTTTTGGTAATTTGACCCACGTGCTCTCTGGCCCTCAAGCATGTAACCTCGGGGTCTGA
GGCCCAGGACCCACCCCTGCCACCCCTCCACCCCACTCCCTGCTCAGTACCTGGCGTTGGTACACAGGCAAG
GATTGGCACAACCAAAATTGGCCTTTTTCTCCCTCTTAATATTGAAGAAATCCCACATTTCTCATTTGGTAATG
GTGTTGTGGCCTCAGATTTCTTCTAGTATTTGCTTCTGATGAATGATTATGGTCTATACATAAAAAAGTAAGACT
AAGTATTGCTGAATTTGCAGTTATGTTGTCGTGTATAAGAGCTACTTCCAAGTGTGGTTACAAATGAACCCATGG
AATGATGACTTTCATGTTCTTCTCGTGGGTTTGTGCCGTGCTGCTTTCCAAATAGGTATTGAATTTATGCATTAGT
CTGGTGATTTTCAGTTCTGTGAAATATTTTGGGATCTATACCAATTAAACATTTTCATAGTTCTGCCTATTGTCCT
TCCCTGAGGCTCCATTGCTGCTTGGTGGCCATTCTCTGCCTTTTACAGTCACCTGAACAATGACCCATCATCTC
TTGCTTGCTTGAAATCTTGCTGAAATGTTCTCATTTCTGTTTGTGCTGTATGGGCTCGGGTGGGATGTTTGTGGC
TCTGTTGTGTTTATTCACCAATTTGTACATTATTGTTGTCTTTACTACTGTAAACAGTAAATATAGTTTGGT

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FIGURE 5920

MSEEEKPKKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETDTPAQL
EMEDEDTIDVFQQQTGGVPESLAGHSF

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FIGURE 5921

CTGAACCTCAGCCGCGCCGGGAGGCGAGCCCGTTGGCGAGGGGCGGGGCAGATGGCGAGGGAGCGGGGCGAGCTG
CTTTTGTAGGCTGCGCACTCGCATGGCCCCACCTCGCAGGTCCACTTCCGGCGCCGCGGCTGTTCCGGGCGGAGA
CCGCTTGTGCTGGAGTCGGAGTTGTAACGCTCCACTGACTGATAGAGCGACCGGCCGACCATGGCGCCCGGAGTG
GCCCCGCGGGCCGACGCCGTACTGGAGGTTGCGCCTCGGTGGCGCCGCGCTGCTCCTGCTGCTCATCCCGGTGGCC
GCCGCGCAGGAGCTCCCGGAGCTGCTTGTTCTCAGAACACAAACAAAACCTGTGAAGAGTGCCTGAAGAACGTC
TCCTGTCTTTGGTGCAACACTAACAAGGCTTGTCTGGACTACCCAGTTACAAGCGTCTTGCCACCGGCTTCCCTT
TGTAATTGAGCTCTGCACGCTGGGGAGTTTGTGGGTGAACCTTTGAGGCGCTGATCATCACCATGTCGGTAGTC
GGGGGAACCTCCTCCTGGGCATTGCCATCTGCTGCTGCTGCTGCTGTCAGGAGGAAGAGGAGCCGGAAGCCGGAC
AGGAGTGAGGAGAAGGCCATGCGTGAGCGGGAGGAGAGGCGGATACGGCAGGAGGAACGGAGAGCAGAGATGAAG
ACAAGACATGATGAAATCAGAAAAAATATGGCCTGTTTAAAGAAGAAAACCCGTATGCTAGATTTGAAAACAAC
TAAAGCGCTCCAGCACATCAGTCCCCGACGCTTCCCTGTGAGGTGCACGCTCCGCAGCCAGCCAGCCGGGAGACC
ACGTGGCCATTGCGGTCTCCTGACCTTGGCCAGTGAACCTGCCAGCCTTCCAGGACAGGCGGCCGGAGAGCTGCC
CCTGAAGGACAGTCTCTCGTCTTGACACTGGTGACCTTCTATTCCCTGTTTCATCTCTGTTTCTAGATTTAGTC
ACTTGAAATAAGAAATCTTTGGGGTTTTGGGCTTTTTTATACTCTTCTCAGTTTGTGAAACGCTAACTGCACACGA
AGCCGCTTGACGGCACCCAGCGCTGTGGCTGTCACTTCTCCAGGGCAGAACCCTGCGTTTTCTCTGTCCACTAA
CAAGCTTCACACGCAACACAGGGAAGTCGGTTTTGACTTTTGTTCATGAGGAGAAGTACCAGCCCTCATCATTCCC
CATAAAACCACGGACAGCGTCTGTGTGCGCATCTTGAGTCTTCACACCTGTTGACTCACACGGCTTTTGTGATG
ACACGGGGCTCCAGTACACAGTCTGATAAGGACTTAACGTCTTAACCTCAATTGTATTAAATAGCATTGGGGAAAT
AGCTAAACCTTTTTAAAAAAATTTATTGGATTTTCTCCCTGCTTAAAGATTTACCAGAAAACCTTCATATAA
AAATTCAGGCCCTTTTTGGACAATTTTTAAATTTGTATCTTTACTAGAACATGAGAATCTTTTCCCTTGGAG
CTTGAATTATAAATGTGGTGTGGCTGCTCAGCAGCACCAGTTGACTGCTCGTGTGCCAGCGGTGTGGGGAG
GACGGGGCAGGACGCTGCAGCTCTCTCCAGCCCTGTGGCATCCTCAGTGCCTGCAGGCCTCTCGCTGCTGTTG
GGCTGTCTGGGGGGTGGCCATTTAGGGATCGTGGGGACGGGGTCCACCCCAAGAAGAAAGAAAGGCCCGTCCACA
GGCCCGGCTCTGGGCCACGTGCCCCGGAAGCAGGTGTGTCCAGAGTCAGCTGAGGGCTCTCCCCACACCACCCAG
CAGGCGCTGGTGCTCCTTCTGCCTCATGGGACAGTCCAGCTTCCAGCCGCTCTGGCTCGAGGGTGGTCTGAGCA
CTTCTTCTGAGTGGGCTTCTCTGGGAGCTCTCCAGTGGCACTGCTGGACCTGCCACGTTTCTGTAAAAATCAGG
ATACGTGGCTTTAGTAAGCAGACCAAGCGCTTCGTGGCAGGGAAAGCAGCGTGCGGGGAAGTCACTGAAAAAGTGC
TGCCTAAGGAAGTTTGGAAATAGTCCCCGTTCCAGATTGCCTTGAATTTTAAACATTTTGCTTTGGGAAAGTAG
GTCAGCAGCACCTAAGATCAAGGATGCGTTCCATTTTACACTTCACAGTCATGAAAACCTGAGAAGACTGTCTTC
AGCGTGAACTAAAGTTCACAGGCAGATCACTGATCCAGAACACTTCAAGAACTCGTCAAAACAGCTCGATAAGCCT
TTTTGACTGTGTACATCTGTACCGGGAATAACATTCTAGGCTGAAATTTCCACAAAGAATAGAACCTGTACCCA
GTTCTTCAGGCTGATTTCCCTGACCTCTTGGGCATTTGTATTTGTAGTAAAGTATTGCAGAGATTCTAAGTATT
TTATAGCAGCCATCAAAATTGGACTTTGTATTGTTTATTCATAAAAGACACTTGGTAATAGACTTCAGTGAACCTC
TGTATGAATGCAGTAGTGTGCGTGCAAAATCCGCTTCCCTGAGCGTAGGGTGCTGAGCTGGCGCTAGGGCTCGGTT
GTGAAATACAGCGTAGTCAGCCCTTGGCGCTCAGTGTAGAAACCCACGCTCTGTAAGGTGGTCTTCGTCCATCTGC
TTTTTCTGAAATACACTAAGAGCAGCCACAAAACCTGTAACCTCAAGGAAACCATAAAGCTTGGAGTGCCTTAAT
TTTTAACAGTTTCCAATAAAACGGTTTACTACCTGA

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FIGURE 5922

MAPGVARGPTPYWRLRLGGAALLLLLIPVAAAEPPGAACSQNTNKTCEECLKNVSLWCNTNKACLDYPVTSVL
PPASLCKLSSARWVCWVNFEALIIITMSVVGTTLLLGIAICCCCCRRKRSRKPDRSEEKAMREREERRIRQEER
RAEMKTRHDEIRKKYGLFKEENPYARFENN

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FIGURE 5923

TGTCAGGACTTTACGACCCGCGCCTCCAGCTGAGGTTTCTAGACGTGACCCAGGGCAGACTGGTAGCAAAGCCCC
CACGCCCAGCCAGGAGCACCGCCGAGGACTCCAGCACACCGAGGGACATGCTGGGCCTGCGCCCCCACTGCTCG
CCCTGGTGGGGCTGCTCTCCCTCGGGTGCGTCCTCTCTCAGGAGTGACGAAGTTCAAGGTGACGAGCTGCCGGG
AATGCATCGAGTCGGGGCCCGGCTGCACCTGGTGCCAGAAGCTGAACTTACAGGGCCGGGGGATCCTGACTCCA
TTCGCTGCGACACCCGGCCACAGCTGCTCATGAGGGGCTGTGCGGCTGACGACATCATGGACCCACAAGCCTCG
CTGAAACCCAGGAAGACCACAATGGGGGCCAGAAGCAGCTGTCCCCACAAAAGTGACGCTTTACCTGCGACCAG
GCCAGGCAGCAGCGTTCAACGTGACCTTCCGGCGGGCCAAGGGCTACCCCATCGACCTGTACTATCTGATGGACC
TCTCCTACTCCATGCTTGATGACCTCAGGAATGTCAAGAAGCTAGGTGGCGACCTGCTCCGGGCCCTCAACGAGA
TCACCGAGTCCGGCCGCATTGGCTTCGGGTCTTCGTGGACAAGACCGTGCTGCCGTTTCGTGAACACGCACCCCTG
ATAAGCTGCGAAACCCATGCCCAACAAGGAGAAAGAGTGCCAGCCCCCGTTTGCTTCAGGCACGTGCTGAAGC
TGACCAACAACCTCCAACCAAGTTTCAGACCGAGGTGCGGAAGCAGCTGATTTCCGGAAACCTGGATGCACCCGAGG
GTGGGCTGGACGCCATGATGCAAGTGCCTGCGCGCTGCCCGGAGGAAATCGGCTGGCGCAACGTACGCGGGCTGCTGG
TGTTTGCCACTGATGACGGCTTCCATTTTCGCGGGCGACGGGAAGCTGGGCGCCATCCTGACCCCCAACGACGGCC
GCTGTCACCTGGAGGACAACCTGTACAAGAGGAGCAACGAATTCGACTACCCATCGGTGGGCCAGCTGGCGCACA
AGCTGGCTGAAAACAACATCCAGCCCATCTTCGCGGTGACCAGTAGGATGGTGAAGACCTACGAGAACTCACCG
AGATCATCCCAAGTCAGCCGTGGGGGAGCTGTCTGAGGACTCCAGCAATGTGGTCCAACCTATTAAGAATGCTT
ACAATAAACTCTCTCCAGGGTCTTCTTGATCACAACGCCCTCCCCGACACCTGAAAGTCACCTACGACTCCT
TCTGCAGCAATGGAGTGACGCACAGGAACCCAGCCAGAGGTGACTGTGATGGCGTGACATCAATGTCCCGATCA
CCTTCCAGGTGAAGGTCACGGCCACAGAGTGATCCAGGAGCAGTCGTTTGTATCCGGGCGCTGGGCTTCACGG
ACATAGTGACCGTGCAAGTCTTCCCAAGTGTGAGTGCCGGTGCCGGGACCAGAGCAGAGACCGCAGCCTCTGCC
ATGGCAAGGGCTTCTTGAGTGCGGCATCTGCAGGTGTGACACTGGCTACATTGGGAAAACTGTGAGTGCCAGA
CACAGGGCCGGAGCAGCCAGGAGCTGGAAGGAAGCTGCCGGAAGGACAACAACCTCATCATCTGCTCAGGGCTGG
GGGACTGTGTCTGCGGGCAGTGCCCTGTGCCACACCAGCGACGTCCCCGGCAAGCTGATATACGGGCAGTACTGCC
AGTGTGACACCATCAACTGTGAGCGCTACAACGGCCAGGTCTGCGGCGGCCCGGGGAGGGGGCTCTGCTTCTGCC
GGAAGTGCCGCTGCCACCCGGGCTTTGAGGGCTCAGCGTGCCAGTGCGAGAGGACCACTGAGGGCTGCCTGAACC
CGCGGCGTGTGAGTGAGTGGTCTGCGCCGCTGCGCGCTGCAACGTATGCGAGTGCCATTCAGGCTACCAGCTGC
CTCTGTGCCAGGAGTGCCCCGGCTGCCCTCACCTGTGGCAAGTACATCTCTGCGCCGAGTGCCCTGAAGTTCG
AAAAGGGCCCTTTGGGAAGAACTGCAGCGCGGCGTGTCGGGCCCTGCAGCTGTCGAACAACCCCGTGAAGGGCA
GGACCTGCAAGGAGAGGGACTCAGAGGGCTGCTGGGTGGCCTACACGCTGGAGCAGCAGGACGGGATGGACCGCT
ACCTCATCTATGTGGATGAGAGCCGAGAGTGTGTGGCAGGCCCAACATCGCCGCCATCGTCGGGGGCACCGTGG
CAGGCATCGTGCTGATCGGCATTCTCCTGCTGGTCTATCTGGAAGGCTCTGATCCACCTGAGCGACCTCCGGGAGT
ACAGGCGCTTTGAGAAGGAGAAGCTCAAGTCCAGTGGAACAATGATAATCCCTTTTCAAGAGCGCCACCACGA
CGGTCAAGAACCCCAAGTTTGTGAGAGTTAGGAGCACTTGGTGAAGACAAGGCCGTCAGGACCCACCATGTCTG
CCCCATCACGCGGCCGAGACATGGCTTGCCACAGCTCTTGAGGATGTCACCAATTAACCAGAAAATCCAGTTATTT
TCCGCCCTCAAAAATGACAGCCATGGCCGGCCGGGTGCTTCTGGGGGCTCGTCGGGGGGACAGCTCCACTCTGACT
GGCAGAGTCTTTGCATGGAGACTTGAGGAGGGAGGGCTTGAGGTTGGTGAGGTTAGGTGCGTGTTCCTGTGCAA
GTCAGGACATCAGTCTGATTAAAGGTGGTGCCAATTTATTACATTTAACTTGTGAGGGTATAAAATGACATCC
CATTAATTATATTGTTAATCAATCACGTGTATAGAAAAAAATAAACTTCAATACAGGCTGTCCATGG

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FIGURE 5924A

AGCTCCAGCCGCACTGCCCCGATGGCTCCCTACCCCTGTGGCTGCCACATCCTGCTGCTGCTCTTCTGCTGCCTG
GCGGCTGCCGGGCCAACCTGCTGAACCTGAACCTGGCTTTGGTTCAATAATGAGGACACCAGCCATGCAGCTACC
ACGATCCCTGAGCCCCAGGGGCCCCCTGCCTGTGCAGCCACAGCAGATACCACCACACAGTGACCCCCGGAAT
GGTTCCACAGAGCCAGCGACAGCCCCCTGGCAGCCCTGAGCCACCCTCAGAGCTGCTGGAAGATGGCCAGGACACC
CCCACTTCTGCCGAGAGCCCGGACGCGCCAGAGGAGAACATTGCCGGTGTGCGAGCCGAGATCCTGAACGTGGCC
AAAGGCATCCGGAGCTTCGTCCAGCTGTGGAATGACACTGTCCCCACTGAGAGCTTGGCCAGGGCGGAAACCCTG
GTCCTGGAGACTCCTGTGGGCCCCCTTGCCCTCGCTGGGCCTTCCAGCACCCCCCAGGAGAATGGGACCACTCTC
TGGCCAGCCGTGGCATTCTAGCTCTCCGGGCGCCACACAACCGAGGCTGGCACCTTGCCTGCACCCACCCCA
TCGCTCCCTCCCTGGGCAGGCCCTGGGCACCACTCACGGGGCCCTCAGTGCCACCACCATCTTCAGAGCGCATC
AGCGAGGAGGTGGGGCTGCTGCAGCTCCTTGGGGACCCCCCGCCCCAGCAGGTACCCAGACGGATGACCCGAC
GTCGGCTGGCCTACGTCTTTGGGCCAGATGCCAACAGTGGCCAAGTGGCCCGGTACCCTTCCCCAGCCTCTTC
TTCCGTGACTTCTCACTGCTGTTCCACATCCGGCCAGCCACAGAGGGCCAGGGGTGCTGTTGCCATCACGGAC
TCGGCGCAGGCCATGGTCTTGTGGGCGTGAAGCTCTCTGGGGTGCAGGACGGGCACCAGGACATCTCCCTGCTC
TACACAGAACCAGGTGCAGGCCAGACCCACACAGCCGCCAGCTTCCGGCTCCCCGCTTCGTGCGCCAGTGGACA
CACTTAGCCCTCAGTGTGGCAGGTGGCTTTGTGGCCCTCTACGTGGACTGTGAGGAGTTCAGAGAATGCCGCTT
GCTCGGTCTCACGGGGCCTGGAGCTGGAGCCTGGCGCCGGGCTCTTCGTGGCTCAGGCGGGGGGAGCGGACCCCT
GACAAGTTCAGGGGGTGATCGCTGAGCTGAAGGTGCGCAGGGACCCCCAGGTGAGCCCCATGCACTGCCTGGAC
GAGGAAGCGATGACTCAGATGGGGCATCCGGAGACTCTGGCAGCGGGCTCGGGGACGCCCGGAGCTTCTCAGG
GAGGAGACGGGCGCGGCCCTAAAACCCAGGCTCCCCGCGCCACCCCCGTCACCACGCCACCCTTGCTGGAGGC
AGCAGCACGGAAGATTCCAGAAGTGAAGAAGTCGAGGAGCAGACCACGGTGGCTTCGTTAGGAGCTCAGACACTT
CCTGGCTCAGATTCTGTCTCCACGTGGGACGGGAGTGTCCGGACCCCTGGGGGCGCGTGAAAGAGGGCGGCCTG
AAGGGGCAGAAAGGGGAGCCAGGTGTTCCGGCAGGGCCTCCGGGGAGGGACGGCACCCCTGGAAGGGACGGCGAG
CCGGGCGACCCCGGTGAAGACGGAAGCCGGGCGACACCGGGCCACAAGGCTTCCCCGGGACTCCAGGGGACGTA
GGTCCCAAGGGCGACAAGGGAGACCCTGGGGTTGGAGAGAGAGGGGCCCCAGGACCCCAAGGGCCTCCAGGGCCC
CCAGGACCCTCCTTCAGACACGACAAGCTGACCTTCATTGACATGGAGGGATCTGGCTTCGGGGGCGATCTGGAG
GCCCTTGGGGGTCCCTCGAGGCTTCCCTGGACCTCCCGGACCCCCCGGTGTCCAGGCTGCCCGGCGAGCCAGGC
CGCTTTGGGGTGAACAGCTCCGACGTCCAGGACCCGCGGCCCTTCTGGTGTGCTGGGCGCGAGGGTCCCCC
GGGTTTCTGGCCTCCCGGGACCCCCAGGCCCTCCGGGAAGAGAGGGGCCCCCAGGAAGGACTGGGCAGAAAGGC
AGCCTGGGTGAAGCAGGCGCCCCAGGACATAAGGGGAGCAAGGGAGCCCCCGGTCTGCTGGTGTCTGTGGGGAG
AGCGGCTTGGCAGGAGCCCCCGGACCTGTGGACCACAGGCCCCCCCTGGGCCCCCTGGGCCCCCAGGACCAGGA
CTCCCCGCTGGATTTGATGACATGGAAGGCTCCGGGGGCCCCCTTCTGGTCAACAGCCCCGAAGCGCTGATGGGCCA
CAGGGACCTCCCGCCTGCCGGGACTTAAGGGGGATCTGGCGTGCTGGGCTGCCGGGGGCGAAGGGAGAGATTG
GGAGCAGATGGAGTCCCCGGGTTCCTCGGCTCCCTGGCAGAGAGGGCATTGCTGGGCCCCAGGGGCCAAAGGGA
GACAGAGGCAGCCGGGGAGAAAAGGGAGATCCAGGGAAGGACGGAGTCGGGCAGCCGGGCTCCCTGGCCCCCCC
GGACCCCCGGGACCTGTGGTCTACGTGTGCGAGCAGGACGGATCCGTCTGAGCGTGCCGGGACCTGAGGGCCGG
CCGGGTTTTCGAGGCTTTCCTGGACCTGCAGGACCCAAGGGCAACCTGGGCTCTAAGGGCGAACGAGGCTCCCCG
GGACCCAAGGTGAGAAGGGTGAACCGGGCAGCATCTTCAGCCCCGACGGCGGTGCCCTGGGCCCTGCCAGAAA
GGAGCCAAGGTGAGGGCCGGGCTTCCGAGGACCCCCGGGTCCATACGGACGGCCGGGTACAAGGGAGAGATTGG
CTTTCCTGGACGGCCGGGTGCCCCGGGATGAACGGATTGAAAGGAGAGAAAGGGGAGCCGGGAGATGCCAGCCT
TGGATTTGGCATGAGGGGAATGCCCGGCCCCCAGGACCTCCAGGGCCCCCAGGCCCTCCAGGGACTCCTGTTTA
CGACAGCAATGTGTTTGTGCTGAGTCCAGCCGCCCGGGCCTCCAGGATTGCCAGGGAATCAGGGCCCTCCAGGACC
CAAGGGCGCCAAAGGAGAAGTGGGCCCCCCCCGGACACCAGGGCAGTTTCCGTTTGACTTTCTTCAGTTGGAGGC
TGAAATGAAGGGGGAGAAGGGAGACCGAGGTGATGCAGGACAGAAAGGCGAAAGGGGGGAGCCCGGGGGCGCGG
TTTCTTCGGCTCCAGCCTGCCCGGCCCCCCCCGGCCCCCAGGCCCCCAGGCCACGTGGCTACCCTGGGATTCC
AGGTCCCAAGGGAGAGAGCATCCGGGGCCAGCCCGGCCACCTGGACCTCAGGGACCCCCCGGCATCGGCTACGA
GGGGCGCCAGGGCCCTCCCGGCCCCCAGGCCCCCAGGGCCCCCTTCAATTCCTGGCCCTCACAGGCAGACTAT
CAGCGTTCCTCGGCCCTCCGGGCCCCCCTGGGCCCCCTGGAACCATGGGCGCCTCCTCAGGGGTGAG
GCTCTGGGCTACACGCCAGGCCATGCTGGGCCAGGTGCACGAGGTTCCGAGGGCTGGCTCATCTTCGTGGCCGA

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FIGURE 5924B

GCAGGAGGAGCTCTACGTCCGCGTGCAGAACGGGTTCCGGAAGGTCCAGCTGGAGGCCCCGACACCACTCCCACG
AGGGACGGACAATGAAGTGGCCGCCTTGACGCCCCCGTGGTGCAGCTGCACGACAGCAACCCCTACCCGCGGCG
GGAGCACCCCCACCCACCGCGCGGCCCTGGCGGGCAGATGACATCCTGGCCAGCCCCCTCGCCTGCCCGAGCC
CCAGCCCTACCCCGGAGCCCCGCACACAGCTCCTACGTGCACCTGCGGCCGGCGCGACCCACAAGCCCACCCGC
CCACAGCCACCGCGACTTCCAGCCGGTGCTCCACCTGGTTGCGCTCAACAGCCCCCTGTGAGCGGCATGCGGGG
CATCCGCGGGGCGGACTTCCAGTGCTTCCAGCAGGCGCGGGCCGTGGGGCTGGCGGGCACCTTCCGCGCCTTCCT
GTCTCGCGCCTGCAGGACCTGTACAGCATCGTGCGCCGTGCCGACCGCGCAGCCGTGCCATCGTCAACCTCAA
GGACGAGCTGCTGTTTCCAGCTGGGAGGCTCTGTTCTCAGGCTCTGAGGGTCCGCTGAAGCCCGGGGCACGCAT
CTTCTCCTTTGACGGCAAGGACGTCTTGAGGCACCCACCTGGCCCCAGAAGAGCGTGTGGCATGGCTCGGACCC
CAACGGGCGCAGGCTGACCGAGAGCTACTGTGAGACGTGGCGGACGGAGGCTCCCTCGGCCACGGGCCAGGCCTC
CTCGCTGCTGGGGGCGAGGCTCCTGGGGCAGAGTGCCGCGAGCTGCCATCACGCCTACATCGTGTCTGCAATTGA
GAACAGCTTCATGACTGCCTCCAAGTAGCCACCGCCTGGATGCGGATGGCCGGAGAGGACCGGCGGCTCGGAGGA
AGCCCCACCGTGGGCGAGGAGCGGCCGGCCAGCCCCCTGGCCCCAGGACCTGGCTGCCATACTTTCTGTATAGT
TCACGTTTCATGTAATCCTCAAGAAATAAAAGGAAGCCAAAGAGTGTATTTTTTTAAAGTTTAAACAGAAGCC
TGATGCTGACATTCACCTGCCCCAACTCTCCCCTGACCTGTGAGCCCAGCTGGGTCAGGCAGGGTGCAGTATCAT
GCCCTGTGCAACCTCTTGGCCTGATCAGACCACGGCTCGATTCTCCAGGATTTCCTGCTTTGGGAAGCCGTGCT
CGCCCCAGCAGGTGCTGACTTCATCTCCACCTAGCAGCACCGTTCTGTGCACAAAACCCAGACCTGTTAGCAGA
CAGGCCCCGTGAGGCAATGGGAGCTGAGGCCACACTCAGCACAAAGGCCATCTGGGCTCCTCCAGGGTGTGTGCTC
GCCCTGCGGTAGATGGGAGGGAGGCTCAGGTCCCTGGGGCTAGGGGGAGCCCCCTTCTGCTCAGCTCTGGGCCATT
CTCCACAGCAACCCAGGCTGAAGCAGGTTCCCAAGCTCAGAGGCGCACTGTGACCCCCAGCTCCGGCCTGTCTT
CCAACACCAAGCACAGCAGCCTGGGGCTGGCCTCCCAAATGAGCCATGAGATGATACATCCAAAGCAGACAGCTC
CACCTGGCCGAGTCCAAGCTGGGAGATTCAAGGGACCCATGAGTTGGGGTCTGGCAGCCTCCCATCCAGGGCCC
CCATCTCATGCCCCCTGGCTGGGACGTGGCTCAGCCAGCACTTGTCAGCTGAGCGCCAGGATGGAACACGGCCAC
ATCAAAGAGGCTGAGGCTGGCACAGGACATGCGGTAGCCAGCACACAGGGCAGTGAGGGAGGGCTGTCTGTG
CACTGCCCCATGGACAGGCTGGCTCCAGATGCAGGGCAGTCATGGCTGTCTCCTAGGAAACCCATATCCTTACCC
TCCTTGGGACTGAAGGGGAACCCCGGGGTGCCACAGGCCGCCCTGCGGGTGAAACAAAGCAGCCACGAGGTGCAA
CAAGGTCTCTGTGATCACAGCCACCCCTGAGATCCGGCAACATCAACCCGAGTCATTCTGTGAGGGGAC
AAGTGGACTCAGGGCAGCGCCAGGCTGACCACAGCACAGCCAACACGCACCTGCCTCAGGACTGCGACGAAACCG
GTGGGGCTGGTTCTGTAATTGTGTGTGATGTGAAGCCAATTCAGACAGGCAAAATAAAAGTGACCTTTTACACTG

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FIGURE 5925

GGCCGTTGAGGAGGTGCAGGGAGAGGAGCGGGAGGGCTCTGGGTGGCTGCCAAGGGGGAGCTCTGCGCTCAGACC
CTCAACTAAGACCAGGAGGTGCCTGATGAGGCCCCAGCCTGCAGAGCCAGCTCCTGGTGGAAGAGGAAATGAGGC
ATGCTCCATTTCATTTCGGAGGTACGAACGAGATCACGCCGGTGCTGTCGTACTCCTACCTGGCCGTGCTGGTGCC
CGTGTTCCCTGCTCACCGACTACCTGCGCTACACGCCGGTGCTGCTGCTGCAGGGGCTCAGCTTCGTGTCGGTGTG
GCTGCTGCTGCTGCTGGGCCACTCGGTGGCGCACATGCAGCTCATGGAGCTCTTCTACAGCGTCACCATGGCCGC
GCGCATCGCCTATTCTCTACATCTTCTCTCTCGTGCGGCCCGCGCGCTACCAGCGTGTGGCCGGCTACTCGCG
CGCTGCGGTGCTGCTGGGCGTGTTACACAGCTCCGTGCTGGGCCAGCTGCTGGTCACTGTGGGCCGAGTCTCCTT
CTCCACGCTCAACTACATCTCGCTGGCCTTCTCACCTTCAGCGTGGTCCTCGCCCTCTTCTGAAGCGCCCCAA
GCGCAGCTCTTCTTCAACCGCGACGACCGGGGGCGGTGCGAAACCTCGGCTTCGGAGCTGGAGCGCATGAATCC
TGGCCAGGCGGGAAGCTGGGACACGCCCTGCGGGTGGCCTGTGGGGACTCAGTGCTGGCGCGGATGCTGCGGGA
GCTGGGGG

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FIGURE 5926A

CACTCTGGCTGGGAGCAGAAGGCAGCCTCGGTCTCTGGGCGGCGGCGGCGGCCACTCTGCCCTGGCCGCGCTGT
GTGGTGACCGCAGGCCCCAGACATGAGGGCGGCCCGTGTCTGTCTGCCCTGTGTGTGCAGGCCTGTGGACAGC
CGCGCAGGATGAGCCGGAGACCCGAGGGCCGTGGCCTTCCAGGACTGCCCGTGGACCTGTTCTTTGTGCTGGA
CACCTCTGAGAGCGTGGCCCTGAGGCTGAAGCCCTACGGGGCCCTCGTGGACAAAGTCAAGTCTTACCAAGCG
TTTCATCGACAACCTGAGGGACAGGTACTACCGCTGTGACCGAAACCTGGTGTGGAACGCAGGCGCGCTGCACTA
CAGTGACGAGGTGGAGATCATCAAGGCCTCACGCGCATGCCTGGCGGCCGCGACGCACTCAAAAGCAGCGTGA
CGCGGTCAAGTACTTTGGGAAGGGCACCTACACCGACTGCGCTATCAAGAAGGGGCTGGAGCAGCTCCTCGTGGG
GGGCTCCACCTGAAGGAGAATAAGTACCTGATTGTGGTGACCGACGGGCACCCCTGGAGGGCTACAAGGAACC
CTGTGGGGGGCTGGAGGATGCTGTGAACGAGGCCAAGCACCTGGGCGTCAAAGTCTTCTCGGTGGCCATCACACC
CGACCCTGGAGCCGCGTCTGAGCATCATCGCCACGGACCACAGTACCGGCGCAACTTCACGGCGGCTGACTG
GGGCCAAGTCCGCGCAGCAGAGGAGGCCATCAGCCAGACCATCGACACCATCGTGGACATGATCAAAAATAACGT
GGAGAAGTGTGCTCTCTTGAATGCCAGCCTGCAAGAGGACCTCCGGGGCTCCGGGGCGACCCCGGCTTTGA
GGGAAACGAGCAAGCCGGGGCTCCAGGAGAGAAGGGAGAAGCCGAGATCCTGGAAGACCCGGGGACCTCGG
ACCTGTTGGGTACCAGGGAATGAAGGGAGAAAAAGGGAGCCGTGGGGAGAAGGGCTCCAGGGGACCCAAGGGCTA
CAAGGGAGAGAAGGGCAAGCGTGGCATCGACGGGGTGGACGGCGTGAAGGGGAGATGGGGTACCCAGGCCTGCC
AGGCTGCAAGGGCTCGCCCGGGTTTGACGGCATTCAAGGACCCCTGGCCCCAAGGGAGACCCCGGTGCCCTTTGG
ACTGAAAGGAGAAAAGGGCGAGCCTGGAGCTGACGGGGAGGCGGGGAGACCAGGGAGCTCGGGACCATCTGGAGA
CGAGGGCCAGCCGGGAGAGCCTGGGCCCCCGGAGAGAAAAGGAGAGGCGGGCGACGAGGGGAACCCAGGACCTGA
CGGTGCCCCCGGGGAGCGGGGTGGCCCTGGAGAGAGAGGACCACGGGGGACCCAGGCACGCGGGGACCAAGAGG
AGACCCTGGTGAAGCTGGCCCGCAGGGTGATCAGGGAGAAGGAAGGCCCGTTGGTGTCCCTGGAGACCCGGGCGA
GGCTGGCCCTATCGGACCTAAAGGCTACCGAGGCGATGAGGGTCCCCAGGGTCCGAGGGTGCCAGAGGAGCCCC
AGGACCTGCCGGACCCCTGGAGACCCGGGGCTGATGGGTGAAAGGGGAGAAGACGGCCCCGCTGGAAATGGCAC
CGAGGGCTTCCCCGGCTTCCCCGGGTATCCGGGCAACAGGGCGCTCCCGGGATAAACGGCACGAAGGGCTACCC
CGGCCTCAAGGGGGACGAGGGAGAAGCCGGGGACCCCGGAGAGATAACAACGACATTGCACCCCGAGGAGTCAA
AGGAGCAAAGGGGTACCGGGGTCCCGAGGGCCCCAGGGACCCCAAGGACCAAGGACCCCTGGGCCGGACGA
ATGCGAGATTTTGGACATCATCATGAAATGTGCTCTTGCTGTGAATGCAAGTGCGGCCCCCTCGACCTCCTGTT
CGTGCTGGACAGCTCAGAGAGCATTTGGCCTGCAGAACTTCGAGATTGCCAAGGACTTCGTGCTCAAGGTCATCGA
CCGGCTGAGCCGGGACGAGCTGGTCAAGTTCGAGCCAGGGCAGTCTGACGCGGGTGTGGTGCAGTACAGCCACAG
CCAGATGCAGGAGCACGTGAGCCTGCGCAGCCCCAGCATCCGGAACGTGCAGGAGCTCAAGGAAGCCATCAAGAG
CCTGCAGTGGATGGCGGGCGGCACCTTCACGGGGGAGGCCCTGCAGTACACGCGGGACAGCTGCTGCCGCCAG
CCCGAACACCGCATCGCCCTGGTTCATCACTGACGGGCGCTCAGACACTCAGAGGGACACCACACCGCTCAACGT
GCTCTGCAGCCCCGGCATCCAGGTGGTCTCCGTGGGCATCAAAGACGTGTTTGACTTCATCCAGGCTCAGACCA
GCTCAATGTCAATTTCTTGCCAAGGCCTGGCACCATCCCAGGGCCGGCCCGGCTCTCGCTGGTCAAGGAGAACTA
TGCAGAGCTGCTGGAGGATGCCTTCCTGAAGAATGTACCGCCCAGATCTGCATAGACAAGAAGTGTCCAGATTA
CACCTGCCCCATCACGTTCTCCTCCCCGGCTGACATCACCATCCTGCTGGACGGCTCCGCCAGCGTGGGCAGCCA
CAACTTTGACACCACCAAGCGCTTCGCCAAGCGCCTGGCCGAGCGCTTCTCACAGCGGGCAGGACGGACCCCGC
CCACGACGTGCGGGTGGCGGTGGTGCAGTACAGCGGCACGGGCCAGCAGCGCCAGAGCGGGCGTCTGCTGAGTT
CCTGCAGAACTACACGGCCCTGGCCAGTGCCGTGATGCCATGGACTTTATCAACGACGCCACCGACGTCAACGA
TGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCTCGTCCGGCGCTGCCAAGAAGAGGCTGCTGCTCTTCTC
AGATGGCAACTCGCAGGGCGCCACGCCCCTGCCATCGAGAAGGCCGTGCAGGAAGCCAGCGGGCAGGCATCGA
GATCTTCTGTTGGTGGTCTGGGCCGCCAGGTGAATGAGCCCCACATCCGCGTCTGGTACCGGCAAGACGGCCGA
GTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTGTCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCA
CCAGACAGTCTCCAGGAAGGTGGCGCTGGGCTAGCCACCCCTGCACGCCGGCACCAACCCTGTCTCCCAACCC
TCCCCACTCATCACTAAACAGAGTAAATGTGATGCGAATTTTCCCGACCAACCTGATTGCTAGATTTTFTTA
AGGAAAAGCTTGAAAGCCAGGACACAACGCTGCTGCTGCTTTGTGAGGGTCTCCGGGGCTCAGCCCTGAGT
TGGCATCACCTGCGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTAGTGTACCTGCACAGGGCCCTCTGAGGCTCA
GCCCTGAGCTGGCGTCACCTGTGAGGGCCCTCTGGGGCTCAGCCCTGAGCTGGCCTCACCTGGGTTCCTCCACCC
CGGGCTCTCTGCCCTGCCCTCCTGCCCGCCCTCCTCCTGCTGCGCAGCTCCTTCCCTAGGCACCTCTGTGCT

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FIGURE 5926B

GCATCCCACCAGCCTGAGCAAGACGCCCTCTCGGGGCCTGTGCCGCACTAGCCTCCCTCTCCTCTGTCCCCATAG
CTGGTTTTTCCCACCAATCCTCACCTAACAGTTACTTTACAATTAAACTCAAAGCAAGCTCTTCTCCTCAGCTTG
GGGCAGCCATTGGCCTCTGTCTCGTTTTTGGGAAACCAAGGTCAGGAGGCCGTTGCAGACATAAATCTCGGCGACT
CGGCCCCGTCTCTGAGGGTCCTGCTGGTGACCGGCCTGGACCTTGGCCCTACAGCCCTGGAGGCCGCTGCTGAC
CAGCACTGACCCCGACCTCAGAGAGTACTCGCAGGGGCGCTGGCTGCACTCAAGACCCTCGAGATTAACGGTGCT
AACCCCGTCTGCTCCTCCCTCCCGCAGAGACTGGGGCCTGGACTGGACATGAGAGCCCCTTGGTGCCACAGAGGG
CTGTGTCTTACTAGAAACAACGCAAACCTCTCCTTCTCAGAAATAGTGATGTGTTTCGACGTTTTATCAAAGGCC
CCTTTCTATGTTTCATGTTAGTTTTGCTCCTTCTGTGTTTTTTTCTGAACCATATCCATGTTGCTGACTTTTCCAA
ATAAAGGTTTTCACTCCTC

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FIGURE 5927

TGCTGTGGAAACTCTTCTGGGGCCCCGGGGGGACTACCCTGCCTGCCGTGTGCATTGCAGGAGTGTGACGTCATG
ACCTACGTGAGGGAGACCTGCGGGTGCTGCGGTGAGGCACTGCCCACGGCAGGGTCGGGGCCCATGCACCGGGTG
GAGGGCGGGAGTGCAGCAGGGCTGGGTTCATCGCTGGGTCTGTCATGTGCACGTGACCCTAGGGTCTGAGGTCTCC
CCGGTACCCCCGATGACCCTGCCACCCCCCAGACTGTGAGAAGCGCTGTGGCGCCCTGGACGTGGTCTTCGTC
ATCGACAGCTCCGAGAGCAATTGGGTACACCAACTTCACACTGGAGAAGAACTTCGTTCATCAACGTGGTCAACAGG
CTGGGTGCCATCGCTAAGGACCCCAAGTCCGAGACAGGTACAGCGGGCAGGGGCGGGTGCAGCATTGCGGGGGGC
CGGGCGGGGCGTGGGAGGCGATGAGATGGGAGAAGTCCAGACGCGTCCCTCCAACGAGGGCCTCTGCATGGCTGG
GGATGCCCCAGACCCGAGGCCTCTGGCAACGACCTCACGCGTGCGGCTTGACAGGGACGCGTGTGGGCGTGGTGC
AGTACAGCCACGAGGGCACCTTTGAGGCCATCCAGCTGGACGACGAACGTATCGACTCCCTGTGAGCTTCAAGG
AGGCTGTCAAGAACCTCGAGTGGATTGCGGGCGGCACCTGGACACCCCTCAGCCCTCAAGTTTGCCTACGACCGCC
TCATCAAGGAGAGCCGGCGCCAGAAGACACGTGTGTTTGCGGTGGTCATCACGGACGGGCGCCACGACCCCTCGGG
ACGATGACCTCAACTTGCGGGCGCTGTGCGACCGCGACGTACAGTGACGGCCATCGGCATCGGGGACATGTTCC
ACGAGAAGCACGAGAGTGAAAACCTCTACTCCATCGCTGCGACAAGCCACAGCAGGTGCGCAACATGACGCTGT
TCTCCGACCTGGTCGCTGAGAAGTTCATCGATGACATGGAGGACGTCTCTGCCCGGGTGAGCGTGTGGGCGCGG
GGCAGTCGGCCGAGGAGCAGCAGGCCCCAGCCGCTGTCTAGCGTGAGCCCCAGGGACACCCCTCACCTGAGGGAT
GAATGTGCAGCCCAGGATCTTGGGCTGTGGGTGGGAAGGGGTGCGGGCCCTCTCGGGGCTGCAGGGCAGAGGCCAG
CTGCACCCCTGAGCCTGTCTAGGCAGATCAGTGAACGGCCGCTGAGGGTTGCTAGGGACTGACCCTGGCCTGGCC
CGGCCTCTCTCCTCTCTTCCAGACCCCTCAGATCGTGTGCCAGACCTTCCCTGCCAAACAGGTAATGCAGGGCAC
CCTGAGCCACCACCCAGACTAGCAAAGCAGCCCTGGTGTCTTCTCCTCGAGGGCCGGGCTGGGGGAGGGGCC
GTGCAGGGACCCGGGGGGCGGCGGAGCCACTGCGGAGGCTGCTCCTTAGGGAGATGGCCCCAGGATGGCAGCACA
GGGAGGAGGGGCTTGGGGAAGGCAGGCTCCAGGAACGCAGGAACAGCATCACGAGGCCATGAGGTGGGTGCTG
CTAGCCTGGCGCTGTGCTCGGCATGTGGCCACTGGTCTTGAAGGCCCACCATGGGCCTTGCACTCTCCCTCAGCT
GCCGCCAGCTCCCATGGGCTGGCCGTGCATGTGCCACTCGGAGGAAGCCCTGGATTCACTGAGTGAACCATCC
CGGGGTGGAAGCACTGACACCCCCAGCACCAGCAGGTCTTGCTCCAACCCTGGCCTGCCTCGGAGCTGCAGCTG
CGGCTCTCACATCTCTGGGAGTGGGGGAGCCCATGTCCCGGATGTGGCCACGTGGGTGTGAAGCTGGAGCTGGG
GGTGCCGTCCAGGCTCTGCTGGACGTGGTGCTGCCCCATGGTGCCTGCTGCACCGTACCTGGGCCACAGGAG
GTCCCCGGGGGCGTTAGGAGCTGAGTCCCCCTCAGTGAGCCGTCCCTCCAGGAGTGTGAGGGTAGGGATGCCAT
GGAGACAGGGTGGGAGGGTCCGACCTGGAGGACCACAGGGAGGAAACCTCAGGGTCTGCGGTACGAAGTCAGCGC
TTCTCAGCACGCGGGTGCCTGCTGCGTTCCATGGGGAG

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FIGURE 5928

GCAGTGAAAAATGTTATTAGTTTTGAGGGGGTTTGGGAAGCCAGCGGTACCTGAGGAGTTTCTGGACATTTAAGC
CGGTTCCCTAGGTGTGGCCTTAACAGGGAGGCTGCCCTTCCTTTTCACTGAATGAGCTGCGTCACTCATAAGCTCAC
TGAGGGAACCCCATCTGCCAGCTCGTGCGTGCTCAGACGGCGTCCATGTCTCAAGCGTTCTGTGAAGGCTGCGGT
GCAGCGTGAGGTACCCCTGCTGTGTTCAGAGCTTTGCTCACTGCCTGCGGGGCTGGACCGTTGCACCTCCAGGGC
CCCCAGAAACCGAGTTTCGGGTCAGGGTCCTCTGTGTGCATTCTGCGGGTCCATGTACCAGCTGTGACGACGTC
CAGGGGTTGGGCTGAGAAGCAGACACCCCTTGGGGAACTGGCTCTGTCCCTCCCCTCCCCATCCCAGGAGCTGA
GGTCTTGGTGAGGCCACAGGGCCAGGTCCACGCAAGGACTGTCCGTGTCTGTCTGTGGTCTCTGCCCCACGT
GACACCCACACGTGTGGTAGGCAGCCTGGCCTGGGTTGTGGCTATGGCCAGGCCCCCAAGCTGTCCCCGATGCCC
AGGGCTGGTGACCACCCAGGCAGGTGGGGGCCCCACTTGGTAACAGAGTCATAGGGCAGAACCCACCTGGGCTGC
CACAGAAGGTCTGGCTGCCCCCTGTGCCCCACTGCTCCCCACCATGGCCAATCAGAAGAGTCAGGGGCTCCTGGTCT
TTCCGGGAGGGACGTGGCCAGCCAGCTCTAGGTGTTCTGAGCAGCTCTGGGACCCAGCGATTGAGGGGTCAGGC
TGGGGGTGTGAGGCCAGGGTCTCCTTAAGTACCTCCCACACTACACAGACAGTGGCCCTTTTGTGGGCAGCAA
ATTCTTGAGCCATGAAAGGATGCTTTGGGCCCCCTTCCCTCCCAGGAGGGCAGCCTGTGCAGGGATGGTGCTCAGC
AGGTGGACAGGGCCTGGGGCCTGTGTGAGGGTCTCAGGCCTGGGAGCACCAGCAGAGGAGATGGCGGCTCCCAGC
AGTGCCGCTGAAAGTGTCTTGGGCTAAGGACCCACACCCAGGGCTGCCCTGCAGAAACGCCCCCGCAGAGCCCA
GTGGTCTGTGAGGTTGCAGGCAGGGTGCGAATGGAAGGGCACAGGTGCGGGGCTGGCACCTGCCCCGCTCTGCC
ACCTCCCCTCCGCCCAGCCGACCTGCGTCTCCCCACAGAGCTGTCCGTGGCACAGTGCACGCAGCGCCCCGTG
GACATCGTCTTCTGTGACGGCTCCGAGCGGCTGGGTGAGCAGAACTTCCACAAGGCCCGGCGCTTCGTGGAG
CAGGTGGCGCGGCGGCTGACGCTGGCCCGGAGGGACGACGACCTCTCAACGCACGCGTGGCGCTGCTGCAGTTT
GGTGGCCCCGGCGAGCAGCAGGTGGCCTTCCCGCTGAGCCACAACCTCACGGCCATCCACGAGGCGCTGGAGACC
ACACAATACCTGAACTCCTTCTCGCACGTGGGCGCAGGCGTGGTGCACGCCATCAATGCCATCGTGCGCAGCCCCG
CGTGGCGGGGCCCCGAGGCACGCAGAGCTGTCTTCGTGTTCTCACGGACGGCGTACAGGGCAACGACAGTCTG
CACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTGGGCAGCGACGTGGACATG
GACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCGCTGTTCACGAGAAGGACTATGACAGCCTGGCGCAA
CCGGGCTTCTTCGACCGCTTCATCCGCTGGATCTGCTAGCGCCGCGCCCGGGCCCCGAGTCGAGGGTCTGTGAG
CCCACCCGTCATGGTGCTAAGCGGGCCCGGTCCCACACGGCCAGCACCGCTGCTCACTCGGACGACGCCCTG
GGCCTGCACCTCTCCAGCTCCTCCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCAGCCCCAGGTCTCCCCAGGC
CCTCCGCAGGCTGCCCCGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTG
GAGCAAGCCCTGACCCAATAAAGGCTTTGAACCC

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FIGURE 5929

CACGAGGCGCTGGAGACCACACAATACCTGAACTCCTTCTCGCACGTGGGCGCAGGCGTGGTGCACGCCATCAAT
GCCATCGTGCGCAGCCCGCGTGGCGGGGGCCCGGAGGCACGCAGAGCTGTCCTTCGTGTTTCCTCACGGACGGCGTC
ACGGGCAACGACAGTCTGCACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTG
GGCAGCGACGTGGACATGGACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCCGTGTTCCACGAGAAGGAC
TATGACAGCCTGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACC

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FIGURE 5930

CCGGAGGCACGCAGAGCTGTCCTTCGTGTTTCCTCACGGACGGCGTCACGGGCAACGACAGTCTGCACGAGTCGGC
GCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTGGGCAGCGACGTGGACATGGACGTGCCCAC
CCCGTCCATGGTGCTAAGCGGGCCCCGGGTCCCACACGGCCAGCACCGCTGCTCACTCGGACGACGCCCTGGGCCT
GCACCTCTCCAGCTCCTCCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCCAGCCCCAGGTCTCCCCAGGCCCTCC
GCAGGCTGCCCCGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACCC

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FIGURE 5931

CCCTTGCCTACTGCTCATGGGTGTGGAGACTGATATTCTGGAAGACTGATAGGCAGATTTACTATTAACAAACAC
ATAGTCTGTGGCCAGCAAAGCCACCCCAATCCCTGCACAAGGGTAAAAGGCCAGCATTAGAGCACTGCAGCAGC
AATGACGGAGGGCACGTGTCTGCGGCGCCGAGGGGGCCCTACAAGACCGAGCCCGCCACCGACCTCGGCCGCTG
GCGACTCAACTGCGAGAGGGGCGGGCAGACGTGGACCTACCTGCAGGACGAGCGCGCCGGCCGCGAGCAGACCGG
CCTGGAAGCCTACGCCCTGGGGCTGGACACCAAGAATTACTTTAAGGACTTGCCCAAAGCCCACACCGCCTTTGA
GGGGGCTCTGAACGGGATGACATTTTACGTGGGGCTGCAGGCTGAGGATGGGCACTGGACGGGTGATTATGGTGG
CCCACTTTTCTCCTGCCAGGCCTCCTGATCACTTGCCACGTGGCAGCATCCCTCTGCCAGCCGGATACAGAGA
AGAGATTGTGCGGTACCTGCGGTCACTGCAGCTCCCTGACGGTGGCTGGGGCTGCACATTGAGGATAAGTCCAC
CGTGTGTGGGACTGCGCTCAACTATGTGTCTCTCAGAATTCTGGGTGTTGGGCCTGACGATCCTGACCTGGTACG
AGCCCGGAACATTTCTCACAAGAAAGGTGGTGTGTGGCCATCCCTCCTGGGGGAAGTTCTGGCTGGCTGTCTT
GAATGTTTACAGCTGGGAAGGCCTCAATACCCGTGTTCCAGAGATGTGGCTGTTTCTGACTGGGCACCGGCACA
CCCCTCCACACTCTGGTGCCACTGCCGGCAGGTGTACCTGCCATGAGCTACTGCTACGCCGTTTCGGCTGAGTGC
CGCGGAAGACCCGCTGGTCCAGAGCCTCCGCCAGGAGCTCTATGTGGAGGACTTCGCCAGCATTGACTGGCTGGC
GCAGAGGAACAACGTGGCCCCGACGAGCTGTACACGCCCCACAGCTGGCTGCTCCGCGTGGTATATGCGCTCCT
CAACCTGTATGAGCACCACAGTGCCACCTGCGGCGAGCGGCGCTGCAGAAGCTGTATGAACACATTGTGGC
CGACGACCGATTACCAAGAGCATCAGCATCGGCCGATCTCGAAAACCATCAACATGCTTGTGCGCTGGTATGT
GGACGGGCGCCCTCCACTGCCTTCCAGGAGCATGTCTCAGAATCCCGACTATCTCTGGATGGGCTTGACGG
CATGAAAATGCAAGGACCAACGGCTCACAGATCTGGGACACCGCATTCGCCATCCAGGCTCTGCTTGAGGCGGG
CGGGCACCACAGGCCCCGAGTTTTCTGCTCCTGCCTGCAGAAGGCTCATGAGTTCTGAGGCTCTCACAGTCCCAGA
TAACCTCCCGACTACCAGAAGTACTACCGCCAGATGCGCAAGGGTGGCTTCTCCTTCAGTACGCTGGACTGCGG
CTGGATCGTTTTCTGACTGCACGGCTGAGGCCCTGAAGGCTGTGCTGCTCCTGCAGGAGAAGTCTCCCATGTAC
CGAGCACATCCCCAGAGAACGGCTCTGCGATGCTGTGGCTGTGCTGCTGAACATGAGAAATCCAGATGGAGGTT
CGCCACCTATGAGACCAAGCGTGGGGGGCACTTGCTGGAGCTGCTGAACCCCTCGGAGGTCTTCGGGGACATCAT
GATTGACTACACCTATGTGGAGTGCACCTCAGCCGTGATGCAGGCGCTTAAGTATTTCCACAAGCGTTTCCCGGA
GCACAGGGCAGCGGAGATCCGGGAGACCCTCACGCAGGGCTTAGAGTTCTGTGCGCGGCAGCAGAGGGCCGATGG
CTCCTGGGAAGGCTCCTGGGGAGTTTGCTTACCTACGGCACCTGGTTTGGCCTGGAGGCCCTTCGCCGTATGGG
GCAGACCTACCGAGATGGGACTGCCTGTGCAGAGGTCTCCCGGGCCTGTGACTTCTGCTGTCCCGGCAGATGGC
AGACGGAGGCTGGGGGGAGGACTTTGAGTCTGCGAGGAGCGGCGTTATTTGCAGAGTGCCAGTCCCAGATCCA
TAACACATGCTGGGCCATGATGGGGCTGATGGCCGTTTCGGCATCCTGACATCGAGGCCAGGAGAGAGGAGTCCG
GTGTCTACTTGAGAAACAGCTCCCCAATGGCGACTGGCCGCAGGAAAACATTGCTGGGGTCTTCAACAAGTCCGTG
TGCCATCTCTACACGAGCTACAGGAACATCTTCCCATCTGGGCCCTCGGCCGCTTCTCCAGCTGTACCCTGA
GAGAGCCCTTGCTGGCCACCCCTGAGAACATGCCTACCTGCTGGGTGCCGTCTGTGCGTTCCAGTGAGGCCAAGG
GGTCTTGCCGGGTTGGGGAGCCCTCCCATAAACCCTGTCTTGGGCTCCAACCCCTCAACCTCTATCTCATAGATG
TGAATCTGGGGGCCAGGCTGGAGGCAGGGATGGGGACAGGGTGGGTGGCTTAGACTCTTGATTTTTACTGTAGGT
TCATTTCTGAAAGTAGCTTGTGCGGCTTGGGTGAGGAAGGGGGCACAGGAGCCGTGACCCCTGAGGAGGCACAGC
GCCTTCTGCCACCTCTGGGCACGGCCTCAAGGTAGTGAGGCTAGGAGGTTTTTTCTGACCAATAGCTGAGTTCTT
GGGAGAGGAGCAGCTGTGCCTGTGTGATTCTTAGTGTGAGTGGGCTCTGGGCTGGGGTGGGCCCTGGGCAGGC
TTCTCCTGCACCTTTTGTCTGCTGGGCTGAGGGACACGAGGGCAACCCCTGTGACAATGGCAGGTAGTGTGCATCC
GTGAATAGCCAGTGCGGGGTTGCTCATGGAGCATCCTGAGGCCGTGCAGCAGGGAGCCCCATGCCCTGGGTC
GTGAGCTTGCTGCGTATGGGGTGGTGTGATGGAGCCTCATGCCCTGGGTCGTGAGCTCGCTGAGTATGGGGT
GGTGTGATGGAGCCGCATACCCCTGGGTTGTGAGCTCGCCTGCATATGCAGGGTCTGTGATGAACATCCCAAGT
CTGTGCAGCAGGGAGCCCCATGCCCTGGGACATGAACCCACCTGCGTGGAATGCTGTTTGTGAGGTGTCTACAG
GGTTTATAGTAGTCTTGTGGACACAGAAATGCACAGGGGACACTTACGGACACAGA

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FIGURE 5932

MTEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQWTWYIQDERAGREQTGLEAYALGLDTKNYFKDLPKAHTAFE
GALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKST
VFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGNLTLFPEMWLFPDWAPAH
PSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALL
NLYEHHSASHLRQRAVQKLYEHIVADDRFTKSISIGPISK TINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDG
MKMQGTNGSQIWDTAFAIQALLEAGGHRPEFSSCLQKAHEFLRLSQVPDNPPDYQKYRQMRKGGFSFSTLDCG
WIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLELLNPSEVFGDIM
IDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMG
QTYRDGTACAEVSRACDFLLSRQADGGWGEDFESCEERRYLSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVR
CLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP

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FIGURE 5933A

GTAATACTTAATTACCTTCTAATAATTGGAGCAGAAGATGAACCCAACTAATCCTTTTCAGTGGGCAGCAGCCTAG
TGCTTTTTTCGGCGTCTTCTAGTAATGTAGGAACACTTCCATCTAAGCCGCCATTTTCGATTTGGTCAACCTTCTCT
TTTTGGACAAAACAGTACCTTATCTGGGAAGAGCTCGGGATTTTTCACAGGTATCCAGCTTTCCAGCGTCTTCTGG
AGTAAGTCATTCTCTTCAGTGCAAAACATTAGGGTTACCCAAACCTCAAGTGTTGGACCCTTTTCTGGACTTGA
GCACACTTCCACCTTTGTGGCTACCTCTGGGCCTTCAAGTTTCATCTGTGCTGGGAAACACAGGATTTAGT'TTTAA
ATCACCCACCACTGTTGGGGCTTTCCCAAGCACTTCTGCTTTTGGACAAGAAGCTGGAGAAATAGTGAACCTCTGG
TTTTGGGAAAACAGAAATTCAGCTTTAAACCTCTGGAAAATGCAGTGTTCAAACCAATACTGGGGGCTGAATCTGA
GCCAGAGAAAACCCAGAGCCAAATTGCTTCTGGGTTTTTTTACATTTTCCCACCCAATTAGTAGTGCACCTGGAGG
CCTGGCCCTTTCTCTTTTCTCAAGTAACAAGTAGTTTCAGTACCACTTCAAATTTTACCTTTTCAAACCTGT
TAGTAGTAATAATTCAATTATCTGCCTTTACCCCTGCTTTGTCAAACCAAATGTAGAGGAAGAGAAGAGAGGACC
TAAGTCAATATTTGGAAGTTCTAATAATAGCTTCAGTAGCTTCCCTGTATCATCTGCGGTTTTGGGCGAACCTTT
CCAGGCTAGCAAAGCAGGTGTGAGGCAGGGGTGTGAAGAAGCTGTTTCCCAGGTGGAACCACTTCCCAGCCTAAT
GAAAGGACTGAAAAGGAAGGAGGACCAGGATCGCTCCCCAAGGAGACATGGCCACGAGCCAGCAGAAGATTCCGA
TCCTCTGTCCCGGGGCGATCATCTCCAGACAAACGACCTGTCCGCCTGAATCGACCCCGGGGAGGTACTTTATT
TGGTCGGACGATACAGGATGTTTTCAAAGCAATAAGGAAGTAGGTCTGTCTGGGCAACAAGGAGGCCAAAAAGGA
AACTGGCTTTGTTGAGTCTGCAGAAAGTGACCACATGGCTATCCCAGGAGGGAATCAGTCTGTCTGGCACCTTC
CCGATTCCAGGTGTGAATAAAGAGGAAGAAACTGAAAGTAGAGAGAAGAAAGAAGATTCTCTAAGAGGAACCTCC
GGCGCTCAGAGTAACAGAAGCGAGAGCACAGACAGTCTTGGGGGCTTGTCTCCCTCTGAAGTCACAGCCATCCA
GTGCAAGAACATCCCTGACTACCTCAACGACAGGACCATTTCTGGAGAACCATTTTGGCAAAATTGCTAAAGTGCA
GCGCATCTTTACCAGGCGCAGCAAAAAGCTTGCAAGTGGTACATTTCTTTGATCATGCATCTGCAGCCCTGGCTAG
AAAGAAGGGGAAAAGTTTGCATAAAGACATGGCTATCTTTTGGCACAGGAAGAAAATAAGCCCCAATAAGAAACC
CTTTTCCCTGAAGGAGAAGAAACCAGGTGACGGTGAAGTCAGCCCGAGCACAGAGGATGCACCTTTTCAGCACTC
TCCTCTTGGCAAGGCCGAGGGAGGACTGGTGTAGCAGCCTCCTGAATAAAAGCTCTCCAGTGAAGAAGCCAAG
TCTTCTAAAGGCCACCAATTCGAGGGAGACTCTTTTGAATCAGCCTCCGAGGGCTCCGAGGGCCTCGGGCCATG
TGTGCTCTCCCTCAGTACCTGATAGGCACTGTGGCTGAGACATCCAAGGAGAAGTACCGCCTGCTTGACCAGAG
AGACAGGATCATGCGCAAGCTCGGGTGAAGAGAACCGATCTGGACAAAGCGAGGACTTTTGTGGCACCTGCCT
GGATATGTGTCTGAGAAGGAGAGGTACATGCGGGAGACCCGTAGCCAGCTGAGCGTGTTCGAAGTGGTCCCAGG
GACTGACCAGGTGGACCACGACAGCTGTGAAAGAGTACAGTCCGTCTCGGCGGATCAGGAGGAGCCCCTGCC
CCACGAGCTGCGGCCCTTGCCAGTGCTCAGCAGGACCATGGACTACCTGGTGACCCAGATCATGGACCAGAAGGA
GGGAGCCTGCGGGATTGGTATGACTTCGTGTGGAACCGCACGCGTGGCATAACGAAGGATATACGACAGCAGCA
CCTCTGTGACCCCTGACGGTGTCCCTGATTGAGAAGTGCACCCGGTTTACATCCACTGTGCCACTTTCATGTG
TGAGGAGCCCATGTCTCTCTTTGATGCCAAGATCAATAATGAGAACATGACCAAGTGCCTGCAGGCTGAAGGA
GATGTACCAGGACCTGAGAAACAAGGGTGTCTTCTGTGCCAGCGAAGCGGAGTTCCAGGGCTACAATGTTCTGCT
CAGTCTCAACAAGGGAGACATCCTAAGAGAAGTACAACAGTTCCATCCTGCTGTTAGAAACTCATCTGAGGTGAA
ATTTGCTGTTTACGGCTTTTGTGCTGATTGAACAGTAATAATTTTGTGAGATTTTCAAACCTGGTCCAGTCAGCTTC
TTACCTGAACGCTTGTCTTTTACACTGTTACTTTCAGTCAGATCCGCAAGGATGCTCTCCGGGCGCTCAACTTTGC
GTACACGGTGAGCACACAGCGATCTACCATCTTTCCCTGGATGGTGTGGTGCAGATGCTGCTGTTTACAGACTG
TGAAGAGGCCACCGACTTCTCTACCTGCCACGGCCTCACCGTTTCCGACGGCTGTGTGGAGCTGAACCGGTCTGC
ATTCCTGGAACAGAGGGATTATCCAAGACCAGGAAGTCGGTGTATTACTAGGAAGCTGACGGTGTGAGTCGG
GGAAATTGTGAACGGAGGGCCATTGCCCCCGTCCCTCGTACACCCCTGTGTGCAGCTTCAACTCCCAGAACAA
GTACATCGGGGAGAGCCTGGCCGCGGAGCTGCCCCGTGACACCCAGAGACCCGGCTCCGACACAGTGGGCGGAGG
GAGAGGAGAGGAGTGTGGTGTAGAGCCGGATGCACCCCTGTCCAGTCTCCACAGTCTCTACCAGCCCTGCGCC
CTCACCAGTGCCTCTGCCTCTGTCTGGCACTGACCCCGTGTGTGGCGCCAGCCTCTTCCAGTGTCTGTGCA
GCCTGAACCACCGCCTCCAGAGCCCGTGCCCATGTACTCTGACGAGGACCTGGCGCAGGTGGTGGACGAGCTCAT
CCAGGAGGCCCTGCAGAGGGACTGTGAGGAAGTTGGCTCTGCGGGTGTGCTACGAGCTGCCGCCCTGGGTGT
TTCTAATGCTGCTATGGAGGATTTGTTAACAGCTGCAACCACGGGCATTTTGGAGCACATTGAGCTGAAGAAGT
GTCTAAGGAAAGAGAGCGAAGGGAGCAGGAGAGGCAGCGGGCTGAAGAGGAAAGGTTGAAACAAGAGAGAGAGCT
GGTGTAAAGTGAGCTGAGCCAGGGCCTGGCCGTGGAGCTGATGGAACGCGTGATGATGGAGTTTGTGAGGGAAAC

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FIGURE 5933B

CTGCTCCCAGGAGTTGAAGAATGCAGTAGAGACAGACCAGAGGGTCCGTGTGGCCCCGTTGCTGTGAGGATGTCTG
TGCCCACTTAGTGGACTTGTTTTCTCGTGGAGGAAATCTTCCAGACTGCAAAGGAGACCCCTCCAGGAGCTTCAGTG
CTTCTGCAAGTATCTACAGCGGTGGAGGGAAGCTGTACAGCCCCGAAGAACTGAGGCGCCAAATGCGGGCTTT
CCCTGCTGCGCCCTGCTGCGTGGACGTGAGCGACCGGTGAGGGCGCTGGCGCCAGCGCAGAGTGCCCCATTGC
TGAAGAGAACCTGGCCAGGGGCTCCTGGACCTGGGCCATGCAGGGAGATTGGGCATCTCTTGACCCAGGTTAAG
GCGGCTCAGAAACAAGACAGCTCACCAGATGAAGGTTACAGCACTTCTACCAGCAGCTGCTGAGTGATGTGGCATG
GGCGTCTCTGGACCTGCCATCCCTCGTGGCTGAGCACCTCCCTGGGAGGCAGGAGCATGTGTTTTGGAAGCTGGT
GCTGGTGTTGCCGGATGTAGAGGAGCAGTCCCCAGAGAGTTGTGGCAGAATTCTAGCAAATTGGTTAAAAGTCAA
GTTTCATGGGAGATGAAGGCTCAGTGGATGACACATCCAGCGATGCTGGTGGGATTACAGACGCTTTCGCTTTTCAA
CTCACTTAGCAGCAAAGGGGATCAGATGATTTCTGTTAACGTGTGTATAAAGGTGGCCCATGGCGCCCTCAGTGA
TGGTGCCATTGATGCTGTGGAGACACAGAAGGACCTCCTGGGAGCCAGTGGGCTCATGCTGCTGCTTCCCCCAA
AATGAAGAGTGAGGACATGGCAGAGGAGGACGTGTACTGGCTGTGCGCCTTGCTGCAGCTCAAGCAGCTCCTGCA
GGCTAAGCCCTTCCAGCCTGCGCTTCCTCTGGTGGTTCTTGTGCCTAGCCCAGGAGGGGACGCCGTTGAGAAGGA
AGTAGAAGATGGTCTGATGCTACAGGACTTGGTTTCAGCTAAGCTGATTTACAGATTACACTGTTACCGAGATCCC
TGATACCATTAAATGATCTACAAGGTTCAACTAAGTTTTGCAAGCAGTGCAGTGGCTGGTTTCCCACTGCCCCCA
TTCCCTTGACCTCTGCTGCCAGACTCTCATTACGTACGTGCAAGACGGGATTGGCCATGAGTTTGTGGCCGCTT
TTTCCATGACAGAAGAGAGAGGCGTCTGGGCGGTCTTGCTTCTCAGGAGCCTGGCGCCATCATTGAGCTGTTTAA
CAGTGTGCTGCAGTTTCTGGCTTCTGTGGTGTCTCTGAACAGCTGTGTGACCTGTCTGGCCTGTCACTGAGTT
TGCTGAGGCAGGGGGCAGCCGGCTGCTTCCCTACCTGCACTGGAATGCCCCAGAGCACCTGGCCTGGCTGAAGCA
GGCTGTGCTCGGGTTCCAGCTTCCGCAGATGGACCTTCCACCCCTGGGGGCCCCCTGGCTCCCCGTGTGCTCCAT
GGTGTGCCAGTACGCTTCCAGATCCCCAGCTCACGCCAGACACAGCCTGTCTCCAGTCCCAGGTGGAGAACCT
GCTCCACAGAACCTACTGTAGGTGGAAGAGCAAGAGTCCCTCCCCAGTCCATGGGGCAGGCCCTCGGTTCATGGA
GATCCCATGGGATGATCTTATCGCCTTGTGTATCAACCACAAGCTGAGAGACTGGACGCCCCCGGCTTCTGT
TACATCAGAGGCGCTGAGTGAAGATGGTCAGATATGTGTGATTTTTTTTAAAAACGATTGAAAAAATATGATGT
TCCTTTGTCGTGGGAACAAGCCAGGTTGCAGACGCAGAAGGAGCTACAGCTGAGAGAGGGACGTTTGGAATAAA
GCCTTTTCATCCTTCTGCAAACAATTTTCCCATACCTTGCTTCACATGCACCGTAACCTGGAAGAGGAGCACAGA
GTGTGCTCAAGAGGGGAGGATTCCAGCACAGAGGATCTGATGCGAGGAGCTTCTGCTGAGGAGCTCTTGCGCA
GTGTTTGTGCGAGCAGTCTGCTGCTGGAGAAAGAAGAGAACAAGAGGTTTGAAGATCAGCTTCAGCAATGTTGTC
TGAAGACTCAGGAGCATTTACGGATTTAACTTCCCTTCCCTCTATCTTCTCAGACTCTAGTGTCTCTTTCTCA
CACTATTGAACCTGTGATGAAAACATCTGTAACCTACTAGCCCACAGAGTGACATGATGAGGGAGCACTGCAGCT
GTCAGAGGCGACAGGAACGTGTCTAGGCGAACGACTAAAGCACCTGGAAAGGCTGATCCGGAGTTCAAGGGAAGA
GGAAGTTGCCTCTGAGCTCCATCTCTGCGCTGCTAGACATGGTGGACATTGAGCAGCCTGACCTGTGGGGAG
GGGGTCTCTCCGAAGAGTTTCTGTTTTTACTCAAATAATGTTATTCTCAGATGCTTGATGCACTGTTGGAAT
GTGATTAATTTAATCATGCAGATAAACCATTTAAATGTC

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FIGURE 5934

MNPTNPFSGQQPSAFSASSSNVGTLP SKPPFRFGQPSLFGQNSTLSGKSSGFSQVSSFPASSGVSHSSSVQTLGF
TQTSSVGPFSGLEHTSTFVATSGPSSSSVLGNTGFSFKSPTSVGAFPSTSAFGQEAGEIVNSGFGKTEFSFKPLE
NAVFKPILGAESEPEKTQSQIASGFFTFSHP ISSAPGGLAPFSFPQVTSSSATTSNFTFSKPVSSNNSLSAFTPA
LSNQNVEEEEKRGPKSIFGSSNNSFSSFPVSSAVLGEPFQASKAGVRQGCCEAVSQVEPLPSLMKGLKRKEDQDRS
PRRHGHEPAEDSDPLSRGDHPPDKRPVRLNRPRGGTLFGRTIQDVFKSNKEVGRLGNKEAKKETGFVESAESDHM
AIPGGNQSVLAPSRIPGVNKEEETESREKKEDSLRGTTPARQSNRSESTD SLGGLSPSEVTAIQCKNIPDYLNDRIT
ILENHFGKIAKVQRIFTRRSKKLAVVHFFDHASAAALARKKKGKSLHKDMAIFWHRKKISPNNKPPSLKEKKPGDGE
VSPSTEDAPFQHSPLGKAAGRTGASSLLNKSSPVKKPSLLKAHQFEGDSFDSASEGSEGLGPCVLSLSTLIGTVA
ETSKEYRLLDQRDRIMRQARVKRTDLDKARTFVGTCLDMCEKERYMRETRSQLSVFVVP GTDQVDHAAVKE
YSRSSADQEEPLPHELRPLPVLSTMDYLVTQIMDQKEGSLRDWYDFVWNRTRGIRKIDITQQHLCDPLTVSLIEK
CTRFHIHCAHFMCCEPMSSFDAKINNENMTKCLQSIKEMYQDLRNKG VFCASEAEFGQYNVLLSLNKGDI LREVQ
QFHPAVRNSSEVKFAVQAFALNSNNEVRFKLVQSASYLNACLLHCYFSQIRKDALRALNFAYTVSTQRSTIFP
LDGVVRMLLFRDCEEATDFTLCHGLTVSDGCVELNRS AFLEPEGLSKTRKSVF ITRKLT VSVGEIVNGGPLPPVP
RHTPVCSFNSQNKYIGESLAAELPVSTQRP GSDTVGGGRGEECGVEPDAPLSSLPQSLPAPAPSPVPLPPVLALT
PSVAPSLFQLSVQPEPPPEPVP MYSDDEL AQVVDELIQEALQRDCEEVGSAGAAAYAAAALGV SNAAMEDLLTAA
TTGILRHIAAEVSKERERREQERQRAEEERLQERELVLS ELSQGLAVELMERVMMEFVRETCSQELKNAVETD
QVRVARCCEDVCAHLVDLFLVEEIFQTAKETLQELQCFCKYLQRWREAVTARKKLRRQMRAFPAPCCVDVSDR
LRALAPSAECP IAEENLARGLLDLGHAGRLGISCTRLRLRNKTAHQMKVQHFYQQLLSDVAWASLDLPSLVAEH
LPGRQEHVFWKLVLPDVEEQSPESCGRILANWLKVKFMGDEGSVDDTSSDAGGIQTLSL FNSLSKGDQMISV
NVCIKVAHGALSDGAIDAVETQKDLLGASGLMLLLPPKMKSEDMAEEDVYWLSALLQLKQLLQAKPFQPALPLVV
LVPSPGGDAVEKEVEDGLMLQDLVSAKLISDYTVTEIPDTINDLQGSTKVLQAVQWL VSHCPHSLDLCCQTLIQY
VEDGIGHEFSGRFFHRRERRRLGGLASQEPGAI IELFNSVLQFLASVVSSEQLCDLSWPVTEFAEAGGSRLPLHL
HWNAP EHLAWLKQAVLGFQLPQMDLPPLGAPWLPVCSMVVQYASQIPSSRQTQPVLSQVENLLHRTYCRWKS KS
PSPVHGAGPSVMEIPWDDLIALCINHKL RDWTPPRLPVTSEALSEDGQICVYFFKNDLKKYDVPLSWEQARLQTQ
KELQLREGR LAIKPFHP SANNFPIPLLHMRNWK RSTECAQEGRI PSTEDLMRGASAEELLAQCLSSSLLLEKEE
NKR FEDQLQQWLS EDSGAFTDLTSLPLYLPQTIVLSLSHTIEPVMKTSVTTSPQSDMMREQLQLSEATGTC LGERL
KHLERLIRSSREEEVASELHLSALLDMVDI

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FIGURE 5935

TGCCGCCCAGGACCCGCGAGCAGAGACGACGCCTGCAGCAAGGAGACCAGGAAGGGGTGAGACAAGGAAGAGGATG

TCTGAGCTGGAGAAGGCCATGGTGGCCCTCATCGACGTTTTCCACCAATATTCTGGAAGGGAGGGAGACAAGCAC
AAGCTGAAGAAATCCGAACTCAAGGAGCTCATCAACAATGAGCTTTCCCATTTCTTAGAGGAAATCAAAGAGCAG
GAGGTTGTGGACAAAGTCATGGAAACACTGGACAATGATGGAGACGGCGAATGTGACTTCAGGAATTCATGGCC
TTTGTGGCCATGGTTACTACTGCCTGCCACGAGTTCTTTGAACATGAGTGAGATTAGAAAGCAGCCAAACCTTTC
CTGTAACAGAGACGGTCATGCAAGAAAGCAGACAGCAAGGGCTTGCAGCCTAGTAGGAGCTGAGCTTTCAGCCG
TGTTGTAGCTAATTAGGAAGCTTGATTTGCTTTGTGATTGAAAAATTGAAAACCTCTTTCCAAAGGCTGTTTTAA
CGGCCTGCATCATTCTTTCTGCTATATTAGGCCTGTGTGTAAGCTGACTGGCCCCAGGGACTCTTGTTAACAGTA
ACTTAGGAGTCAGGTCTCAGTGATAAAGCGTGACCCGTGCAGCCCGCCATGGCCGTGTAGACCCTAACCCGGAGG
GAACCCTGACTACAGAAATTACCCCGGGGCACCCTTAAACTTCCACTACCTTTAAAAAACAAAGCCTTATCCAG
CATTATTTGAAAACACTGCTGTTCTTTAAATGCGTTCCTCATCCATGCAGATAACAGCTGGTTGGCCGGTGTGGC
CCTGCAAGGGCGTGGTGGCTTCGGCCTGCTTCCCGGGATGCGCCTGATCACCAGGTGAACGCTCAGCGCTGGCAG
CGTCCTGGAAAAAGCAACTCCATCAGAACTCGCAATCCGAGCCAGCTCTGGGGGCTCCAGCGTGGCCTCCGTGAC
CCATGCGATTCAAGTCGCGGCTGCAGGATCCTTGCTCCAACGTGCCTCCAGCACATGCGGCTTCCGAGGGCACT
ACCGGGGGCTCTGAGCCACCGCGAGGGCCTGCGTTCAATAAAAAAG

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FIGURE 5936

MSELEKAMVALIDVFBHQYSGREGDKHKLKKSELKELINNELSHFLEEIKEQEVVDKVMETLDNDGDGECDFQEFM
AFVAMVTTACHEFFEHE

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FIGURE 5937

CGGCGACGGCCGGATGGCTGCGTGGGGCTGTGTGGCTGCGCTCGGCGCGGCGCGTGGGCTTTGCTGGCGGGCGGC
GCGCGCGGCTGCGGGGCTCCAGGGCCGCCCCGCGCAGGTGCTATGCTGTGGGCCCCGCTCAGAGCCCACCCAC
CTTTGGGTTCCTGTTGGACATCGATGGAGTGCTTGTGCGGGGCCACAGAGTGATCCCTGCTGCTCTGAAAGCCTT
CCGAAGGCTGGTGAACCTCCAGGGGAGCTGCGGGGTGCCCGTGGTTTTTTGTTACAAATGCTGGGAACATCTTACA
ACACAGCAAAGCCCAGGAGCTGTCAGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTATCCTCTCTCACAG
CCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCCGTGATGGAAAATGC
CCAGGGACTGGGCTTCCGAAATGTCGTACCCGTGGATGAGCTGCGGATGGCCTTTCCTCTGCTTGACATGGTGGA
CCTGGAGCGGCGGCTAAAGACCACGCCCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGGTGCTCCTCCTAGG
GGAGCCGGTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCTCCTCAGCAATGGGAGCCCTGGGGCTGG
CCTGGCAACACCCCCCTACCCCCACCTCCCCGTCTAGCCAGCAACATGGATCTCCTGTGGATGGCTGAAGCCAA
GATGCCAGGTTTGGACATGGCACCTTCTGCTGTGCCTGGAAACCATTTACCAGAAAGTGACGGGCAAGGAGCT
GAGATACGAGGGCTGATGGGCAAACCCAGCATCTCACTTACCAGTATGCCGAGGACCTGATCAGGCGACAGGC
GGAGAGGCGGGGCTGGGCCGCCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCTATGCTGACGTATACGG
CGCAACCTGTTCACCAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAACTAGGGGCCGGGGGCACACG
GCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACAATCCCAGGAACCC
ACAGTCCACGGAGCCTGTCTTGGAGGAGGGGAGCCTCCATTCCACGGGCACCGAGACTTATGCTTCAGTCCAGG
GCTCATGGAGGCCTCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCAAGGAGGGCTGGGC
TTTGAGTGAAGGCGAGTGCCTGGAGGTGAGGGGGTGAGCCTGGACCTGTGGGCGAGTCCCATTTGGCTGGGCTCT
GGCCTGATCACTGGGCTCAGGTCAGGGCTTGGTTCCCTTGCCACCCTTCTTGCTGCCCCATGAGTGTGGCATTAC
TGGTCACTTGAAGAAGACAGTGACTCTTTTTCCCTGCTGGGTAGCATTTTGTATGGAACGGTTGGAATTTCTG
GGCCAGTTCCACGTGCCCTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCCTGTGTGCCTCAGTGTCTCT
CTCATTTTCACTAGGACTTCTGAAATGGGGGAGGCAGTGTGGAATACTGTGGATGTCTGTGCAGAGCCTTTGCCG
GCACTGAAGGCATGCAGCCTGTGCGGCAGAGTGTCTTAACACCAGATGCTACTTTTACTGTATTGTAGTTTATTG
CCCGGAGATGTGGGGCTTTTTTTTTTAAATAAAATAATCATAATAAATGTTTCATGATGCTGACTCTTGTGA

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FIGURE 5938

MAAWGCVAALGAARGLCWRAARAAAGLQGRPARRCYAVGPAQSPPTFGFLLDIDGVLVRGHRVIPAALKAFRRVL
NSQGQLRVPVVFVTNAGNILQHASKAQELSALLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAQGLG
FRNVVTVDELRFMAFPLLDMDLERRLKTTPLPRNDFPRIEGVLLLGEPVRWETSLQLIMDVLLSNGSPGAGLATP
PYPHLPVLASNMDLLWMAEAKMPRFHGTFLLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRRQAERRG
WAAPIRKLYAVGDNPMSDVYGANLFHQYLQKATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTE
PVLGGGEPPFHGHRDLCFSPGLMEASHVVNDVNQVNEAVQLVFRKEGWALE

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FIGURE 5939

GTGCACGTGCGCACGGCGACGGCCGGATGGCTGCGTGGGGCTGTGTGGCTGCGCTCGGCGCGGGCGCGTGGGCTTT
GCTGGCGGGCGGGCGCGCGCGGGCTGCGGGGGCTCCAGGGCCGCCCCGCCCCGAGGTGCTATGCTGTGGGCCCCGCTC
AGAGCCCACCCACCTTTGGGTTCTGTGGACATCAATGGAGTGCTTGTGCGGGGGCCACAGAGTGATCCCTGCTG
CTCTGAAAGCCTTCCGAAGGCTGGTGAACCTCCAGGGGAGCTGCGGGGTGCCGTGGTTTTTTGTACAAATGCTG
GGAACATCTTACAACACAGCAAAGCCCCAGGAGCTGTCAGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTA
TCCTCTCTCACAGCCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCCG
TGATGGAAAATGCCCAGGGAGTGGGCTTCCGAAATGTCGTACCCGTGGATGAGCTGCGGATGGCCTTTCTCTGCTC
TTGACATGGTGGACCTGGAGCGGGCGGCTAAAGACCACGCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGG
TGCTCCTCCTAGGGGAGCCGGTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCTCCTCCTACGAATGGGA
GCCCTGGGGCTGGCCTGGCAACACCCCCCTACCCCCACCTCCCCGTCCTAGCCAGCAACATGGATCTCCTGTGGA
TGGCTGAAGCCAAGATGCCCAGGTTTGGACATGGCACCTTTCTGCTGTGCTGGAAACCATTACCAGAAAAGTGA
CGGGCAAGGAGCTGAGATACGAGGGCCTGATGGGCAAACCCAGCATCCTCACTTACCAGTATGCCGAGGACCTGA
TCAGGCGACAGGCGGAGAGGGCGGGGCTGGGCGCCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCCATATG
CTGACGTATACGGCGCCAACCTGTTCCACCAAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAACTAGGGG
CCGGGGGCGACACGGCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACA
ATCCCAGGAACCCACAGTCCACGGAGCCTGTCTTGGAGGAGGGGAGCCTCCATTCCACGGGCGACCGAGACTTAT
GCTTCAGTCCAGGGCTCATGGAGGCCTCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCA
AGGAGGGCTGGGCTTTGGAGTGAGGGCAGTGCAGGTGGAGGTGAGGGGGTGAGCCTGGACCTGTGGGCGAGTCCCA
TTGGCTGGGCTCTGGCCTGATCACTGGGCTCAGGTGAGGGCTTGGTTCCCTTGCCACCCTTCTTGTGCCCCATG
AGTGTGGCATTACTGGTCACTTGAAGAAGACAGTGACTCTTTTCCCTGCTGGGTAGCATTTTGTATGGAACGG
TTGGAATTTTCTGGGCCCAGTTCCCACGTGCCTTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCCTGTGTG
CCTCAGTGTCCTTCTCATTTAGTAGGGACTTCTGAAATGGGGGAGGCAGTGTGGAATACTGTGGATGTCTGTGC
AGAGCCTTTGCCGGCACTGAAGGCATGCAGCCTGTGCGCAGAGTGTCTTAACACCAGATGCTACTTTTACTGTA
TTGTAGTTTATTGCCCGGAGATGTGGGGCTTTTTTTTTTAAATAAAATAATCATAATAAATGTTTCATGATGCTGAA
AAAAAAAAAAAAAAAA

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FIGURE 5940

MYAWFFLPFSFSQSPPTFGFLDIDGVLVRGHRVIPAAALKAFRRLVNSQGQLRVPVVFVTNAGNILQHKAQELSA
LLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAGGLGFRNVVTVDLRFMAFPLDMVDLERRIKTTP
LPRNDFPRIEGVLLLGEPVRWETSLQLIMDVLLSNGSPGAGLATPPYPHLPVLASNMDLLWMAEAKMPRFHGHTF
LLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRQAERRGWAAPIRKLYAVGDNPMSDVYGANLFHQYLQ
KATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTEPVLGGGEPFPHGHRDLCFSPGLMEASHVVN
DVNEAVQLVFRKEGWALE

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FIGURE 5941

AGGAACCGGAACCCGCGGTTATAAAGTAAAGGAACCCGAGATCTGCGCAGGGGTTCCCTTTGCCGATTTCTCTCA
CCTCACCTTTCAAACCTAAACTCGAGCCTACTGTTCCACGGCCTAGCATTGCTCTCGCCATGGCTCTCAGCGATG
CTGACGTGCAAAAGCAGATAAAGCATATGATGGCTTTTCATTGAACAAGAAGCCAATGAGAAAGCAGAAGAAATAG
ATGCAAAGGCAGAAGAAGAGTTCAACATAGAGAAAGGTCGGCTTGTGCAAACCCAAAGACTAAAGATTATGGAAT
ATTATGAGAAGAAAGAGAAACAGATTGAGCAGCAGAAGAAATTCAGATGTCCAATTTGATGAATCAAGCGAGAC
TCAAAGTCCTCAGAGCAAGAGATGACCTTATCACAGACCTACTAAATGAAGCAAAACAGAGACTCAGCAAGGTGG
TAAAAGATACAACCAGGTACCAAGTGCTGCTGGATGGACTGGTTCTCCAGGGTTTGTACCAGTTGCTGGAGCCCC
GAATGATTGTTTCGTTGCAGGAAACAAGATTTCCCTCTGGTAAAGGCTGCAGTGCAGAAGGCAATTCCTATGTACA
AAATTGCCACCAAAAAACGATGTTGATGTCCAAATTGACCAGGAGTCCTACCTGCCTGAAGACATAGCTGGTGGAG
TTGAGATCTATAATGGAGATCGTAAAATAAAGGTTTCCAACACCCTGGAAAGCCGGCTGGATCTCATAGCCCAGC
AGATGATGCCAGAAAGTCCGGGGAGCCTTGTTTGGTGCAAATGCCAACAGGAAGTTTTTGGACTTAAGCCTTCAGGA
GGTGGAGCTCGTCGTCAGCTCTCCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAAACACGAATGTCTCTGTA
GCTTCCTCTTCACTGCCCCAGTATTGCTCTGTATTTATCAGCGATGCCCCCTCTGTCACTCATGCCTTGCCATAAT
GTTCACAATGGTGGAAAGCTTCATGTAATATGATCAGGACCCACCTCCAGTTCTTCTGAAAGTGTGACAGTGTCC
AGCCGGTTCTGCAGCACTAGGGGAGGGGGCAGATGGTGGTTGCATGGGCTTCCTGGGTCTCCACTCTCCGTCTGG
CCTAAAGGTGATGTATTTGGTGTGTTGGCCCTGCAGTCCCCACTCTTGAGGCTTAAGGCGCATGTGGCACACCACT
CCTTCCAGCAGTAGTCGCTTTACTGTTACCTGTTTAGGCCTAGAAGTTTTCCCTCATCTGTAAATGTGATTTAAA
ATCTAAGCCATGAATATGCTTTATTTATTAAAAGAGTTATGCGGATTTAATGTGA

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FIGURE 5942

MALSDADVQKQIKHMMAFIEQEANEKAAEIDAKAEEEFNIEKGRVQTQRLKIMEYYEKKEKQIEQQKKIQMSNL
MNQARLKVLRRDDLIITDLLNEAKQRLSKVVKDTTRYQVLLDGLVLQGLYQLLEPRMIVRCRKQDFPLVKAADVQK
AIPMYKIATKNDVDVQIDQESYLPEDIAGGVEIYNGDRKIKVSNTLESRLDLIAQQMMPEVRGALFGANANRKFL
D

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FIGURE 5943A

GAAGAGTCCAGTGAAGCCGGGAACCAGAGGCTCCAGCAGGTCA**ATG**CACGCGGCGGATCCTCTGGAGATCCAGGCT
GACGTGCACTGGACTCATATCCGTGAGAGAGAGGAGGAAGAGAGGATGGCGCCGGCCTCTGAGTCCTCTGCTTCC
GGAGCCCCATTGGATGAGAATGACCTAGAGGAAGATGTGGACTCAGAACCAGCCGAGATAGAAGGGGAGGCAGCA
GAGGATGGGGACCCAGGGGACACTGGTGCTGAGCTGGATGATGATCAGCACTGGTCTGACAGCCCGTCGGATGCT
GACAGAGAGCTGCGTTTGCCGTGCCCAGCTGAGGGGGAAGCAGAGCTGGAGCTGAGGGTGTGCGAAGATGAGGAG
AAGCTGCCCGCCTCACCGAAGCACCAGAGAGAGGTCCCTCCCAAGCCACCAGCCCCATCCGGTCTCCCCAGGAA
TCAGCTCTTCTGTTTCATTCCAGTCCACAGCCCCCTCAACAGAGGGGGCCCCAACTCCCACCTGTCCCTGCCGCCACC
CAGGAGAAATCACCTGAGGAGCGCCTTTTCCCTGAGCCTTTGCTCCCCAAAGAGAAGCCCCAAAGCTGATGCCCCC
TCGGATCTGAAAGCTGTGCACTCTCCCATCCGATCACAGCCAGTGACCTGCCAGAAGCTAGGACTCCTGTCTCA
CCAGGGAGCCCCGAGCCCCAGCCACCCGTGGCGGCTCCACGCCCCACCCAGCCACTCCCCATCTGCTCCAG
CCCCAGCCTTCCACCGAGGCCACTGTCCCATCCCTACCCAGTCCCCCATACGCTTCCAGCCTGCCCGGCCAAA
ACATCCACCCCACTGGCCCCCTCTCCCTGTCCAAAGCCAAAGTGACACCAAGGACAGACTGGGCAGCCCCCTTGCT
GTGGATGAGGCCCTCAGACGGAGCGACCTGGTGAGGAGTTCTGGATGAAGAGTGCGGAGATCCGCCGAGCCTC
GGGCTCACACCTGTGGACCGCAGCAAGGGGCCGAGCCAGCTTCCCCACGCCTGCCTTCAGGCCAGTGTCCCTC
AAATCCTATTCCGTTGAAAAGTCCCCCAGGATGAGGGACTCCACCTTCTCAAGCCTCTGTCCATCCCCAAAAGG
CTGGGCCTGCCAAAGCCGGAAGGCGAGCCGTTGTCCCTGCCAACCCCCCGGTCCCCGTCCGACAGAGAGCTACGC
AGCGCCAGGAGGAGCGCAGGGAGCTGTCCAGCAGCTCTGGCCTGGGCCTGCACGGGAGCTCCTCCAACATGAAG
ACACTGGGCAGCCAGAGCTTCAACACCTCGGACTCCGCCATGCTCACGCCCCCTCCAGCCCCCCCCACCGCCA
CCCCGGGCGAGGAGCCCGCCACCTTGCGGAGGAAGCTCAGGGAGGCCGAGCCCCAATGCCTCGGTGGTCCGCGG
CCCTTGCCCGCCACCTGGATGCGGCCCCCCCGGGAGCCTGCTCAGCCCCCAGAGAGGAGGTGCGGAAGTCGTTT
GTGGAGAGCGTGGAGGAGATTCCCTTTGCTGATGATGTGGAGGACACCTATGACGACAAGACTGAGGACTCAAGC
CTGCAGGAGAAATTCTTACGCCCCGCTCCTGCTGGCCGCGCCCCGAGAAGCCTCGCCACCCGCCCTGGCCAAG
GAGAAGGGAGGCTGCCTGCTCTGGAGGGGACGCTGCAGCCACAGAAGAGGGGGCTGCCCTTGGTGTCCGCGGAA
GCCAAGGAGTTGGCCGAGGAGCGCATGCGAGCCAGGAGAAGTCCGTGAAGAGCCAGGCGCTGCGGACGCCATG
GCCAGGCAGCTGAGCAGGATGCAGCAGATGGAGCTGGCCTCAGGCGCCCCCAGGCCCCGCAAGGCGTCTCAGCA
CCCTCCCAGGGCAAGGAGCGCCGGCCTGACTCCCCACAGCCCCACTCTCAGGGGCTCCGAGGAGCCACCCTG
AAGCATGAAGCCACCAGCGAGGAGGTCTCTCCCGCGCTCGGACTCAGGGGGCCCAGATGGCTCTTTCACTTCA
TCCGAGGGCTCCAGTGGAAGAGCAAGAAGAGGTCTGCTACTCTTCTCCCCCGCAGAAACAAGAAGGAGAAGAAG
TCCAAAGGCGAGGGCCGCCCCCGGAGAAGGCCAGCTCCAACCTCCTAGAAGAAGCCGCCGCCAAACCCAAGTCC
CTGTGGAAGTCCGTCTTCTCCGGGTACAAGAAGGACAAGAAGAAGGCGGACGACAAGTCTGCCCCAGCACC
CCCTCCAGCGGGGCCACGGTGGACTCTGGAAGCACAGGGTGCTTCCCGTCGTAAGGGCAGAGCTGCAGCTCCGG
CGCCAGCTGAGCTTCTCCGAGGACTCAGACCTCTCCAGCGACGATGTCTTGAGAAGTCTCACAGAAGTCCCGG
CGAGAGCCAAGAACCTACACGGAGGAGGAAGTGAATGCCAAGCTGACCCGGCGTGTGCAAAAGGCAGCTCGGAGA
CAGGCCAAGCAGGAGGAGCTTAAGCGGCTGCATCGAGCCAGATCATCCAGCGGCAGCTGCAGCAGGTGGAGGAG
AGGCAGCGGCGGCTGGAGGAAAGGGCGTGGCTGTGGAGAAGGCGCTCCGGGGCGAAGCAGGCATGGGCAAGAAG
GACGACCCCAAGCTGATGCAGGAGTGGTTCAAGCTAGTGCAAGGAGAAGAACGCCATGGTGCCTACGAGTCCGGAG
CTGATGATCTTTGCCCGGGAGCTGGAGCTGGAAGACCGGCAGAGTCGACTGCAGCAGGAGCTCCGGGAACGCATG
GCAGTGGAAGATCACCTTAAGACTGAGGAGGAGCTGTGAGAAGAGAAGCAGATTCTCAATGAGATGCTGGAGGTG
GTGGAGCAGAGAGACTCACTGGTGGCGCTGCTGGAGGAGCAGCGGCTCCGGGAGAGAGAGGAGGACAAGGACCTG
GAGGCTGCCATGCTGTCCAAGGGCTTACGCCTTAAGTGGTCC**TGAG**CTCCACCCAACGCTCCATTTTCTGTTGG
CATCCGCTGGCCAGGCAGTGGCATCCAACACCCCGAGCCGCGATCTGAGGAGGCCTGGCACCTCCTTGGAGT
TTACGCTCAGATGCCCGTGTGCTGCTTGGAAAGTGGTCGAGTCCCGCTGCAGTGGGGAGCCCCAGGTGACAGTG
GTTATCTGAGACGGCTCCACCTCCTGGGAGGAGGCCACCTGGACCTCCCACTCAGAGGAGCAGCACGGCGTGTA
TGGCATGACGCAGGGGACCACCCCGCGCTCCCTGAGGATGTGCTGGCTGTGCCCTTTTTTCCACTGGCACAT
TTGGTAAGAGAGGGAAGCTGCTCCCGTCAAGAACACAGTGCGCCGTGCGAGGGGCACTGTCTTCTTCATGCTCC
CTGGAGCACCACCAAGAAACGTAAACAATACCCACGAAAGCAGGGTCAGGGGTCAGGGTGCGATCGAGACCCA
GGATGGGGGCGTCCAGTCATGCCCACCCAGCATCACAGGAGACATGGAGGTGCGGGCAGGCTCCTGAATTATTA
TGCAAATTAGGAGGACGCAGGAGGGGTCTGCCCTCCAGCCGAACACCACACACTGGACCTAAGTGCCAAATGC

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FIGURE 5943B

CTGGGCCGCTTGCTGGCTGTGGCCTGAGGCTTGTGGGTTGCTGCATTTTGCTTGTAGTTTACAACCATTTTGACA
CTGGAAAATGCTGACTTTGGGGGACAGGATGAGGCCCTACATTCTAAGCCCCCAGTTGGCAGACAGGCATTGTCC
CTGTTCCACATTTATGTTCGGGACAGGAGATGACCTTTTCTCCGTGTTTTTCTGTGTTTGCACGTTGAAATGAA
GCTGACAACCTGGCAAGACGCTCAGCCGCTTCAAACCTTTTTTGTCAATTAACCTATTTTTTAATACCTGAAAAG
AAGTAACTTCGTTTGTGTATCTTTACTAGAGGAACTGATCACCTGCGCCCGGGTGCAGGAGCCACAGCGGCATCT
GGTGCCTCCTACGCGACCTGGTCCGGGGCTGCCCCGGTGCTCCTCACGTGCATCTATTTATTAGCCTTTCTCTTCG
TATCACTGGCCTGGCTGGCATCAGGGAGCTGCCCAGAACCCCTGTGTGGGTCTCCTCACAGCTTTCTGTCCCT
CCTCCACCCGGTGCCTGCCTCACCTTGGCGCTAGACCATCTGGACCACTCATGTGATGAGGGTGCATTTCCGTTT
TGTTTTGGGCCAGGCCAACAGCAGAGCTGCCACTCTCACCTCCCAGTGAGAAATCCGGCTCTGCAGAACTCGCC
CTTGCTCAGTTTGGGGGCCAGGGCATCACCTTCTCCGCACATATGTTAAAGAAGGTTTCAGGATGGGCCCTCA
TCCACACAGGCCAAGAGGGTGCAAGGTGGGACCCTGGAATCATGTGGCTGGTGAGAAATCCCTCCTCCAGCCTA
AGATTACCCAGACGGAAACGCGAGTGCTGCAGTGGATGCTGGGATGCAGGCTGGTGCCTCTCAAGCAGATCAGC
GACTCCCGCCCTTCTTCCGAAGGCGACGGGCACCTGCCTTGTGCCGGATCTTCATGGGGACATAAAGGGCGAGC
CCCGAATCACTAGCTCCTATAGCCAACTGTTCTTTCTCACGGTTCCGCACCAGCCTGGCTGTGTACAGCTCAT
CAAGCCACTGAGCTAATCGGGGTGGGGTGCTTGTCCATCAAAGCAGTCAGCACATAGCCCAGCGAGGAGCCATCC
GGACCAGACCCGCTGCCAGGGGCGCTCCAGCCGCTGCCGCTCCGTGGGCTGGGGCCAGCTGGGAGCAGAGGC
CTGGCCCCCTCAAGGCGTCCCGCAGTGGAGCAGGCTGAGTGGCTGTGCTGACCTTGGGCTTTCCATGGGAACAC
ACTGTGCTTCAACTTGAACATTATCCCAGCTGCAAAGGAGCAAAGAACCTGTGTATCCTTGTCTGTCCAGAAG
CTGCCATCTCTCTCCCATGCACATCCGGGAGATAACGCCGCTAGTGGCCGCCACAGCGCTGATTCTCCACCTGTT
CTCACGTGAGGCAAAGGTCTCCTTTCTTTCTTTTACTTAAAAAAGGGGAGAGGAGGGTTTCTAGATTCCATC
TTCAAACCCAGTCGTCCCATAAAAATTGGACGTGGGAAAAGACCTTCACTGCCTGCGTGGCCTTTCCAGACCTC
TCCTCGAATGCCACAAAACCGGTCCAGCCCCGGCAGAGCCGCCTTCGGCCCTTGTAGCTCCTGCTGGCCCCACAA
CAGGGAAACAGTTTGCAAAGTGGCTTGGAAGGAGTGTGGCCTAGGGATCTGCTGTAAGTGGCCAGACGTAGCAGG
AGAGCCAGTGTCACCTTCTGGTCTGGTCAGCCTTAACACTGTGGCATCCTCCACAGCACACAGGCAGCCTGC
AGTCTGGAAGGTGGACCCGAGCCTTTCAGAGAGGCGCCGAGAGCCGAGGCCTGCGCCCCAGCCTTCTGCTCC
CGACTGTGAGGACACCCAGTTCTAGTAGAGCACTTTTTTAAAGCTCCCATTTTGTAAACACTAGTTTGCGGTTG
ACTTGAGTACTCTGGTGACTTCTGCGTCAAGCGTTCTCAAGCTGTGAGAATGTGCGCAGCTCCAGGCAGGTTTT
CTCTCGGAGAGTTAAGTCTTCCCTGAAGGCAGGGAAGCAGGATGGATACACATATATACACGCATAAAAACAC
AGGTGCGGGAGCAGCCCAGACTCAAGGCTGACTAAACTGGAGGCTGAATACCGTGGAGGTCCACATGCAGCTTCC
CTGGAGGGCAGGCCGAGGCGCTCCCGCCCTGGGCTTGAGGATGCTGCACCCCGTGGGCTTCCAGGCCTGCCCA
GATGATGCCCTTCAGGCCTCTGTCCCTGGCGGCCATCCTCAGGCCGATTTTGACCAGCAATGATAGACTCTTCTTA
ACCTTTTCAAAATAAAATTTTTCAGTGGGACAGAAAGGAGAGTTAAAAAACATTTTTTTTAAAGGTGGTAACATCTG
ACCCACAAAGGGAATGGGTCTGTTTTATGCAAAATAAAAGTTTTTCAAAT

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FIGURE 5944

MHAADPLEIQADVHWTHIREREEEEERMAPASESSASGAPLDENDLEEDVDSEPAEIEGEAAEDGDPGDTGAELDD
DQHWSDSPSDADRELRLPCPAEGEAELELRVSEDEEKLPASPKHQERGSPQATSPIRSPQESALLFIPVHSPSTE
GPQLPPVPAATQEKSPERLFPEPLLPKEKPKADAPSDLKAVHSPIRSQPVTLPARTPVSPGSPQPQPPVAAST
PPPSPLPICSQPQPSTEATVPSTQSPIRFQPAPAKTSTPLAPLPVQSQSDTKDRLGSP LAVDEALRRSDLVEEF
WMKSAEIRRSLLGLTPVDRSKGPEPSFPTPAFRPVSLKSYSVEKSPQDEGLHLLKPLSIPKRLGLPKPEGEPLSLP
TPRSPSDRELRSQAQERRELSSSSGLGLHGSSSNMKTLSQSFNTSDSAMLTPPSSPPPPPPPGEEPATLRRKLR
EAEPNASVVPPPLPATWMRPPREPAQPPREVRKSFVESVEEIPFADDVEDTYDDKTEDSSSLQEKFFTPPSCWPR
PEKPRHPPPLAKENGRPLALEGTLQPKRGLPLVSAEAKELAEERMAREKSVKSQALRDAMARQLSRMQQMELAS
GAPRPRKASSAPSQGKERPDSPTRPTLRGSEPTLKHEATSEEVLSPPSDGGPDGSGFTSSEGSSGKSKKRSSL
FSPRRNKKEKSKGEGRPPEKPSSNLLEEAAPKSLWKS VFSGYKKDKKKKADDKSCPSTPSSGATVDSGKHRV
LPVVRAELQLRRQLSFSESDLSDDVLEKSSQKSRRPRTYTEEELNAKLTRRVQKAARRQAKQEELKRLHRAQ
IIQRQLQQVEERQRRLEERGVAVEKALRGEAGMGKDDPKLMQEWFKLVQEKAMVRYESELMIFAELELEDRO
SRLQQELRRERMAVEDHLKTEEELSEEKQILNEMLEVVEQRDSLVALLEEQRLREREEDKDLEAAML SKGFSINWS

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FIGURE 5945

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGAAAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGAGGAGCAGGACGCCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAAAT
TAGAAGATAATGTACAATATGTGTCCATGAGAAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAACTGGGAGTCCGAAAGCGGAGAGTGATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAGCTACA
GGAGGAACCTTCTGACTTATCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAAGTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCGTGGAGAATTACGCATCAAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTTCCA
CATTGAAAACAACCTCTTTTATAATTATCACTGCTTTTGTGAGTGAAATAGACATCTTGCCTCCTGAAGTAG
CTTCATCACAGAGTGTGATGAAGACAGACAGTCAGGCTGAAAAGGACAGTCTTTGTGGACTCTACCCTTCCCTT
CAAGGAGTATGTATATGTACAAAAGAAATGCTTACACTGGTTCATGTTTGAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTTGTACAGCCAAAATAATGTATATATGGAATGACAGACAAATCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTCCAAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTAAATTAAGTATTTAATATGGTTTTTCACTGCTAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCCAGTG
GCTTTGGGGGCAAGGATAGAAATGCCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAACCTCTTTCAGGTTTTTGCAAGTAGATTTGTAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTCACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCAGTGCCTCACACTATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5946

GGGGCCTGGCTCGGACCACGCGGGGCGGGACCTGGAGCTGACGCGGCCGCCCCGCCCTGGGACCATAACCGGCC
GCCGCCGCCACCGCGGACCGAGCGCGGAGTTCTGGAGTCTCGGACCCGAAGCCGCCACAGGGCGCCCCGCCTCCC
GCCCGCCATGCCCGCGCCCCGCGCCCCGCGCGCTCTGGCGGCCGCGCGCCCCGCGTCCGGGAAGGCCAAGCTGAC
GCACCCGGGGAAGGCGATCCTGGCAGGCGGCCCTGGCGGGTGGCATCGAGATCTGCATCACCTTCCCCACCGAGTA
CGTGAAGACGCAGCTGCAGCTGGACGAGCGCTCGCACCCGCCGCGGTACCGGGGCATCGGGGACTGCGTGCGGCA
GACGGTTCGCAGCCATGGCGTCCTGGGCCTGTACCGCGGCCCTTAGCTCCCTGCTCTACGGTTCCATCCCCAAGGC
GGCCGTCAGGTTTGGAAATGTTTCGAGTTCTCAGCAACCACATGCGGGATGCCAGGGACGGCTGGACAGCACGCG
TGGGCTGCTGTGCGGCCCTGGGCGCTGGCGTGGCCGAGGCCGTTGGTGGTCTGTGCCCCATGGAGACCATCAAGGT
GAAGTTCATCCACGACCAGACCTCCCCAAACCCCAAGTACAGAGGATTCTTCCACGGGGTTAGGGAGATTGTGCG
GGAACAAGGGCTGAAGGGGACGTACCAGGGCCTCACAGCCACTGTCTGAAGCAGGGCTCGAACCAGGCCATCCG
CTTCTTCGTCTATGACCTCCCTGCGCAACTGGTACCGAGGGGACAACCCCAACAAGCCCATGAACCCTCTGATCAC
TGGGGTCTTCGGAGCTATTGCAGGCGCAGCCAGTGTCTTTGGAAACACTCCTCTGGATGTGATTAAGACCCGGAT
GCAGGGCCTGGAGGCGCACAAATACCGGAACACGTGGGACTGCGGCTTGCAGATCCTGAAGAAGGAGGGGCTCAA
GGCGTGAGTGGGGGAGGGGAGGGCTATTGTCCCCACCTCAAACCTTTCCCGGCCTACCTGGCCTGCCCACTCTG
TCCCTTTCAGGCCTCTGTGCTCTCACTTCAGTATCTGGGGATTGCCCTGTGCAGGGACACTGTGCTGACCTGCC
TTCTCTCCCCGCCCTCTCTCCACCCAGATTCTACAAGGGCACTGTCCCCCGCCTGGGCCGGGTCTGCCTGGAT
GTGGCCATAGTGTGTTGTCTATGATGAAGTGGTGAAGCTGCTCAACAAAGTGTGGAAGACGGACTAAGCCTAG
AGAGGCCGCAAGGGGACCGCCCCAGGCACCGCCAGAGTGTCTGTACCTTTGTCTCACGATTCCAGTGCAGTAG
TGCCAAAAGGCCCTTCCACAGTCCCTCGAGCTCTGTAGCCTGGTCTGTGCATTGTGGCTGTCAAATCCATGTGT
CCCCCTGTGGTCTGTGTGTGACACCACCACTGTGTCCAGTGTCTGGCCAGCCATGGCTGGATGTGCATCTGG
CCTATGACCTGTGCTGTGTTTCATGTTCTGTGTACGTGACCCTGTGCCCCGCTCCCGGGGTGCCCGTGTGG
CCTGGGTCTCGGCCCTGTAGCCCTGGCCCGGTCCAGTCCGGTGCCTTCCACCCTGCCCTGGCCTACCACAGCT
GCCTCCGGGCCCTCGGCCCTGGCTTACCGCATTCCAGGGGCTGCAGCCCCCTGCTTCTCCCGCCATTGGCCTTAAC
TGGCCCTCGGGCCCTCTCTCCGCCCCGACAGGGTGGCACCCACCACTCTCAGGACCACCCTGCCAAGGCAGAAT
AAACCGGATCCTGTTGC

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FIGURE 5947

AGTAAGCCGGGCTGCCGTCTTCTCGCCATGGGCTCCGGGCCGCGCGGGGCGCTGAGCTTACTGCTCCTGCTGCTG
GCCCCGCCGAGCCGCCCGGCCGAGGTGCCCCGGCGCCCTGTAGCTGCGCGGGGACGCTCGTGGAAGTGCAGGGCGC
CGCGGGCTGACTTGGGCCTCGCTGCCGACCGCCTTCCCTGTGACACAACCGAGCTGGTGCTGACCGGCAACAAC
CTGACGGCGCTGCCGCCGGGGCTGCTGGACGCGCTGCCCGCGCTGCGCACCGCACACCTGGGCGCCAACCCCTGG
CGCTGCGACTGCCGCCTTGTGCCGCTGCGCGCCTGGCTGGCCGGCCGCCCGAGCGTGCGCCCTACCGCGACCTG
CGTTGCGTGCGCCCCCAGCGCTGCGCGGCCGCGCTGCTGCCCTATCTGGCCGAGGACGAGCTGCGCGCCGCTTGC
GCTCCCGGCCCGCTCTGCTGGGGGGCGCTGGCGGCGCAGCTTGCCTGCTGCGCCTTGGGCTGCTGCACGCGTTG
CTGCTGGTGCTGCTGCTGTGCCGCTGCGGAGGCTGCGGGCCCGGGCCCGCGCTCGCGCCGACGCCGGCTGTCG
CTGACCGACCCGCTGGTGGCCGAGCGAGCCGGAACCGACGAGTCCTTGAGGAGAGAACCGGTGCGTCCTGAGGAGA
GAACCGGCGCTGGGCAACACGGGCCTGCAAACTCGACAGGACCTGCCCCGAGGGGCCCTCGCGCCAACCTGGACC
GGTCCCCGCTCCTCCGCTGCCCCAATCTCTCAGACCCACCCACCTGCAGGCCAGACCACGTGGGACAGAACTC
CTGCCCCACCTACCCCGAGGGAGGCGAACCCGCACTTCCAGGCTTGGGAGGACCATGGGGCACAATGCGGTCCAG
ACCCTGCTGCGTCTCCCTTCCAAACTCTGGTGCTGAATAAACCTTCTGATCTGG

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FIGURE 5948

MSGPRGALSLLLLLLAPPSRPAAGCPAPCSCAGTLVDCGRRGLTWASLPTAFPVDTTTELVL TGNNLTALPPGLL
DALPALRTAHLGANPWRCDCRLVPLRAWLAGRPERAPYRDLRCVAPPALRGRLLPYLAEDELRAACAPGPLCWGA
LAAQLALLGLGLLHALLLVLLLCRLRRLRARARARAAAARLSLTDPLVAERAGTDES

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FIGURE 5949

CCCAAGATGCCAAAAGGAAAAGAAGGCCAAGGGAAAAGAAGGTGGCTCTGGCCCCTGCTGTGTCATGAAGAAGCAGGAG
GCTAAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATCGGACAGGACATCCAGCCCCAAA
AGAGACCTCACCCACTTTGTGAAATGGCCCCGCTATATCAGGCTGCTGGCAAACGGGACGTCCCCACCAAGAGAC
CACCTGTCTTCGAGCAGGAGTTAACATCGTCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGATTG
CAGACGACGTGGATCCCATCGAGCTGGTTGTCTTCTTGCCCTGCCTTGTGTGCGTAAAAATGGGGGTCCCTTACTGCA
TTATCAAGGGGAAGGCAAGACTGGGACGTCTAGTCCACAGGAAGACCTGCACCACTGTCACCTTCACATAGGTGA
ACTCGGAAGACAAAGGCACCTTTGGCTAAGCTGATGGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGA
TCCGCCGTCACCTGGGGCGGCAACATCCTGGGTCTTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGG
CTAAAGAACTTGCCACTAAACTGGGTAAATGTACACTGTTGAGTTTCTGTACATTAAAATAATTAAAATAATA
CAAATTTTCCTTC

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FIGURE 5950

CTGCCGTGTGTCTGAGGGCCAGTCATGCAGCATCCACCTAGGCAGGCTTGAGAGTCCTTGGGAGAGTCCAGGTGA
CCTGGTTTTTAATTAAAACGCGTCCTGTTTATTGTGGTTGGGCTCTGCCCAGAAAGGAAGGTAGGGCCTTGAAGT
GGTGATGTCCAGGTTTCCTGCACAGGTAGGGTGGAGGCAACGATGGACTCTGGCATGGCCTTCCAGACAGGCAGT
GCACACAGCTCCTTTCAGAGTGGCTTTGTTGCCAGCTGCTGCAGCACCTGCTTTCAGACAGATGATGACCAAGCT
GCTTTCCTGCTGGGGGAAGGAGGCATTCCCCCTGGGTTGTTTTCTCTTCTGGCCCCCACACACTGGCAGACCCG
AAGGCAGGGTGTCTCAGGAGCTGCAGAGCCTGGCAGGGTTTGTCTGGACATGCTCAGGGACGGGCCATGGTGTGGC
TCTGCTTCTAATCATGGTGTCTGAGTCCCTTCACTTCCCTTGGAAATACCCAGAGATTTTATTTCCTGAAGATAGGA
CATGATGGGTGTCTGAGATGGTATTTAAAGTACCTGTCTGCAAGGAAAACCTTTAAATAGGAAGTACTAAGGAT
AAGGTCCTATGGGATATTGGAATATTTTATAAAGCCACAATAGTTAAAGCACTTAGATGTGGACAGATGAGCAGA
GAATAGAGGACTTTGAAACGGGCCAAATAAATATGGAATTTAGTACAGGCTAGAGGTGTTTCCAATTAACGAGT
AAAATGGATTATTCAGTAAAAGCAGTTGGCCCTCTGGAAAATAGTAAAGCCATGTATGTGCCTCACTCTTTATGC
CAGTACATATTCCAGATTAAAGATTTCAATGTTACAATTATGAAAGTACTAGAGGAAAATATGGGTGAATTTTTT
TTTTTTTTTTTTTTTGCCTATGATTCCAGGATTTTAAAAGTTTATAGATGCCAGAGTTGTGGAGGTATGGAGAAG
TGGACCTTCTCATACTGTTGGTGGGAATACACAATAATATAATTTGACCACGTAACAATTTCTAGGCACATGCATG
CTGTGACTACTTGCTAGGTGCATGAAGGCTCTTGCCAGGGGTGGTCTATGGTTCGGTACCACTACATGGGGGTTTA
GAGCAGGGACTGGAGGTTGGCCTTGCCCTCCTCCCTCCCGCATGAGCTGAGGGTCCTTACCTGACCTTTTTGAG
CTGTGACCAGAGTTTTCTCATGGGGTGGTTAGAAGGGTTGAATGAGAATGATGCCATGCAGTGCCTTGCTG
GGGTCTGGGCCCTCTAACACCCACCTCATGGGTGTCTGTTTTTTGAACAGCAGAACTGGAAAAGCCCAAAGAT
CCAGCAATAAAGGAGCAAGGCAAATAAAGCTGTTACCCTGCAGGATCAGTCAGCATGAGCCAGATTGTGCTGCAG
TAACAAAGATCTCCAACAGCGCAGCGCTACAGTTGGCACTGCTTATTTCTTGCTTGACCTGTGGGCCACCGTG
GCTGGGGCCTGTCTCAGACCTGTGCTGACGACAGCCTACCTGGACATATTTCTCCATGCTCACTGAGGCAGGGGAAA
GGCCACAGCAGGCCACAAGTAATGTGTGTCACCCCACTTCCATTTCTGTGGCCAAAGGAAGCCACAGGCCACAC
CTGAGTTCCATAGGACGGCAGCAGCTGATCATCTATGGGCTGGGGTGCTCAGTATGGAGAAGTACAAGCAGCCA
CCCAGCGTGGGGCTGGTTGGTGCTGCTGAGGATGGGAGGATGGGAGGGCCTGCATCCATCCAGGGCAACATAC
CTGTTTGTCTGCTGGGGCTGCCTGACAAAGGACCGCAGGCTAGGGGACTTAAACAACAGACATTTCTCATGATT
CTGGAGCTAGAAGCCTGAGATCAAGGTGTGGGCAGGGTTGGTTTTCTCCTGAGGCCTCGCTCCTTGGCCTGCAGAT
AGCCATCTTCTTGCCGTGTCCCTGTCTGTGTCTGTGTCTTAATCTCTCATAAGCTCACTAGTCTATTGGATCAGG
GCCCCCCTCATGACCTCATTAAACCCTGAATTACCTCTTTAAAGACCCTGCTTCAAATGTAAGTACTAGGGGT
TAGGACTTGAACATAAAAAATATTGAAGGGACATAGTTCTGCCACAGCGGTGCCCGCATAGGCTTCTCTGGTTT
TGTCTTTGCTGTTCCTGGCAGCGCTATATTGGGCAGGCTTCTGTGGTCTCCACATGCCTGTGTGCAGAGTCCCCC
AGGCCCTGGGTTCTGGGGCCATACTGAGGAGTGGGGATGGCCAAGCCTTGGCTGTTGAGTAGGCAGTGCCCACT
TGTGCTGTATGGGATGCTGTTTCTCACTTAAGAAATCTTTCCCTACCTGGGGGTACAAAGGCATTATCCTGTAT
TCCCAGGTTGTAACCTTTCTGCCTTTGACATTCAACCTTGAGTCCACCTGTAAGTGTAAGTGCAGGAGAGGAGG
GGTCTGCTGTCATCCTTGATAGCCTGTGATGAGCAGAGCCCTCTGCCGACCGCGATGCACATGTAATATGAGCA
AGAAATAAATTTTTGATGTGCGAAGCCACTG

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FIGURE 5951

GGCACGAGGCTCCCCTGTGCTCCCAGCATGCCTCGTGGCCGGTGCCGTCAGCAGGGCCCTCGCATTCCCATCTGG
GCAGCCGCCAATTATGCCAACGCACATCCATGGCAGCAGATGGACAAGGCGTCTCCTGGGGTGGCATAACACCCCC
CTTGTGGATCCCTGGATTGAGCGGCCCTGCTGTGGGGACACCGTGTGTGTGCGAACGACCATCGAGCAGAAGAGC
ACAGCTAGTGGCACTTGTGGCGGTAAACCTGCAGAAAGGGGTCCCCTAGCTGGGCACATGCCAGCTCCCGACCC
CACAGGTGGACTTCTGCTGGGTACCAGGCTCAGACCCAGGCACCTTTGATGGCTCCCCGTGGCTACTGGACCGC
TTCTTGGCCCAGCTGGGCGATTACATGTCTTCCACTTTGAGCACTATCAGGACAACATCAGCCGTGTCTGCGAG
ATCCTCAGGCGCCTAACAGGCCGAGCCCAGGCCTGGGCAGCCCCCTACCTTGATGGGGACCTGCCCTGCCTGAC
GATTACGAGCTCTTCTGCCAGGATCTCAAGGAAGTTGTTCAAGACCCGAACAGTTTTGCTGAGTACCATGCTGTG
GTTACCTGTCCCCTGCCCTGGCCTCCAGCCAGCTGCCAGTGGCCCCCTCAGCTGCCTGTGGTGAGGCAATACTTA
GCTAGGTTCTTAGAGGGCCTGGCACTCGACATGGGTACTGCCCCCAGGTCTTTACCAGCCGCCATGGCCACCCCT
GCTGTGTCTGGGTCCAACCTGTATCTAGAAAGTGTCTGTTCGAGCAGCAGCTGACCAAGGAGAGCACCCCTGGG
CCCAAGGAGCCCCCAGTCCCTGCCAGTTCTACATGTAGCTCCAAGCCTGGTCTGTGGAACCAGCCTCTTCCAG
CCAGAGGAGGCAGCCCCCACACCTGTCCCTAGACTGTGGAGTCAGCTAATCCTCCTGCCAGAGACCAGACCCA
GCTCATCCAGGAGGTCCAAAACCCAGAAAACAGAGGAGGAGGTTTTGGAGACAGAGGGAGACCAGGAGGTGTCC
TTAGGTACCCACAGGAGGTGGTGGAGGCCCCGGAGACCCAGGAGAGCCACCCTTTCTCCTGGGTTCTGAACA
CAGCCCAGGTGGGAACAATGCTGCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCCATAGTCCCCAGTC
AGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGGACTCTGCGCTG
AGCAGAACCAGCTCCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCTCTCTGC
TGCATCCCTGCCGTCCTTCTGGGAGTGCCGTCTCACCCAGGCCTGCTCCCACGAGGGGGTTCGTTTTGTAGATCAA
CTCTCAGCAGATAGTTGCATCATCTTTGTACCTCCACCCCCATAAAACACCCCCCTTGGTGTCTTCCACACTGG
CTGGGACTGAACTGGGTCTGCCACGTCTGCCCTGTTGGGACCTCGTTCTTGTATGGGGTTTCTGTGTCTGTCCCC
CTAGCCCCACCCCTCTCTGCTCCCTGTGACTTCTGTCCCAGCTGGAATGTGAGGAAGGCTGCCCTGGAGGAAGTGGC
CACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGATGTTTCTGTGGGATTACCAGCAGTTC
TGGGCAGCTGGAAGGTTTGGATGCAGGAAGGTGGGATGCAAGCCCCTTGCCAGGCTCAGCTGCAGGCATTGCCCC
TTTGTGTGTTAACTGTAGCTCTAATCGTGCCTGGTGTCTGAAGCAGGCTCCTCTTCCCTGCTGCTGTGCTGC
CATCCCCCTGCTCACTCCGCACTCGCATGCATTGCGGATTGAGCACTTAAGCCCTAGTGTGTAATGACTTGATC
TCCCTCCTGGCAGACTGTGACCCTCAGCACAGGGGCTCTGTCTTAGTCAGCTCTGTGGCCTGGTACACAATTGGT
GCTCATTAAACACGTGTTGGATTACTGGCAAAAAAAAAAAAAAAAAA

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FIGURE 5952

MEQKSTASGTCGGKPAERGPIAGHMPSSRPHRVDFCWVPGSDPGTFDGSPWLLDRFLAQLGDYMSFHFHYQDNI
SRVCEILRRLTGRAQAWAPYLDGDLPLPDDYELFCQDLKEVVQDPNSFAEYHAVVTCPLPLASSQLPVAPQLPV
VRQYLARFLEGLALDMGTAPRSLPAAMATPAVSGSNSVSRALFEQQLTKESTPGPKPEPPVLPSSCSCSKPGPVE
PASSQPEEAAPTVPRLSESANPPAQRPDPAHPGGPKPKQKTEEEVLETEGDQEVSLGTPQEVVEAPETPGEPPLS
PGF

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FIGURE 5953

TGAACACAGCCCAGGTGGGAACAATGCTGCCCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCCATAGTCC
CCAGTCAGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGGACTCT
GCGCTGAGCAGAACCAGCTCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCT
CTCTGCTGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTCACCAGGCCTGCTCCCACGAGGGGGTCGTTTTGTA
GATCAACTCTCAGCAGATAGTTGCATCATCTTTGTCACCTCCACCCCATCGTCTGCCCTGTTGGGACCTCGTTC
CTGTATGGGGTTTTCTGTGTCTGTCCCCCTAGCCCCACCCTCTCTGCTCCCTGTGACTTCTGTCCCAGCTGGAATG
TGAGGAAGGCTGCCTGGAGGAAGTGGCCACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGA
TGTTTCCTGTGGGATTACCAGCAGTTCTGGGCAGCTGGAAGGTTGGATGCAGGAAGGTGGGATGCAAGCCCCTT
GCCAGGCTCAGCTGCAGGCATTGCCCCTTTG

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[illegible]

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FIGURE 5955

MAAMAVLRGLGGRFRWRTQAVAGGVIRGAARGAAAGQRDYDLLVVGGSGGLACAKEAAQLGRKVAVVDYVEPSP
QGTRWGLGGTCVNVGCIPKKLMHQAALLGGLIQDAPNYGWEVAQPVPDWRKMAEAVQNHVKSINWGHVRVQLQDR
KVKYFNIKASFVDEHTVCGVAKGGKEILLSADHII IATGGRPRYPHTHIEGALEYGITSDDIFWLKESPGKTLVVG
ASYVALECAGFLTIGLDTTIMMRSIPLRGFDQOMSSMVEHMASHGTRFLRGCAPSRVRLPDGQLQVTWEDST
TGKEDTGTFDTVLWAIGRVPDTRSLNLEKAGVDTSPDTQKILVDSREATSVPHIYAIGDVVEGRPELTPIAIMAG
RLLVQRLFGGSSDLMDYDNVPTTVFTPLEYGCVGLSEEEAVARHGQEHVEVYHAHYKPLEFTVAGRDASQCYVKM
VCLREPPQLVLGLHFLGPNAGEVTQGFALGIKCGASYAQVMRTVGIHPTCSEEVVKLRISKRSGLDPTVTGCRV

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FIGURE 5956

CACCGCCATTGCCGCCATCGTCGTGGGGCTTCTGGGGCAGCTAGGGCTGCCCGCCGCGCTGCCTGCGCCGGACCG
GGGCGGGTCCAGTCCCGGGCGGGCCGTCGCGGGAGAGAAATAACATCTGCTTTGCTGCCGAGCCAGAGGAGACCC
CAGACCCCTCCCGCAGCCAGAGGGCTGGAGCCTGCTCAGAGGTGCTTTGAAGATGCCGGAGGCCCGCCTCTGCT
GTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGGCCT
GTGCCTTATCGGCTGGAACGAGTTCATCCTGCAGCCCATCCACAACCTGCTCATGGGTGACACCAAGGAGCAGCG
CATCCTGAACCACGTGCTGCAGCATGCGGAGCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTACTG
CGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGGACGCCGTGATTCAGGAGCACCA
GCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCGCCTGCTGTCACCAGG
GGCGAGGCTCATCACCATCGAGATCAACCCCGACTGTGCCGCCATCACCAGCGGATGGTGGATTTGCTGGCGT
GAAGGACAAGGTCACCCCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCAGCTGAAGAAGAAGTATGATGTGGA
CACACTGGACATGGTCTTCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTGGAGGAATGTGG
CCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCAGGTGCGCCAGACTTCTTAGCACACGT
GCGCGGGAGCAGCTGCTTTGAGTGACACACTACCAATCGTTCTTGGAATACAGGGAGGTGGTGGACGGCCTGGA
GAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCTGACTGCCCCCGGGCCCCCTCTCGGGCTCTCTC
ACCCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCCTAAATGCAA
AGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAACTGCAACACTGGATTGTTCTTTTTTAA
GACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAAATAT
AAAATAGAAATTAA

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FIGURE 5957

MPEAPPLLLAAVLLGLVLLVLLLLLRHWGWLCLIGWNEFILQPIHNLLMGDTKEQRILNHVLQHAEPGNAQSV
LEAIDTYCEQKEWAMNVGDKKGKIVDAVIQEHQPSVLELGAYCGYSAVRMARLLSPGARLITIEINPDCAAITQ
RMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVDTLDMVFLDHWKDRYLPDTLLLEECGLLRKGTVLLADNVICPG
APDFLAHVRGSSCFECTHYQSFLEYREVVDGLEKAIYKGPGEAGP

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FIGURE 5958

GCTGTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGG
CCTGTGCCTTATCGGCTGGAACGAGTTTCATCCTGCAGCCCATCCACAACCTGCTC**ATGGGT**GACACCAAGGAGCA
GCGCATCCTGAACCACGTGCTGCAGCATGCGGAGCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTA
CTGCGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGGACGCCGTGATTGAGGAGCA
CCAGCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCCGCCTGCTGTCACC
AGGGGCGAGGCTCATCACCATCGAGATCAACCCCGACTGTGCCGCCATCACCCAGCGGATGGTGGATTTCGCTGG
CGTGAAGGACAAGGTCAACCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCAGCTGAAGAAGAAGTATGATGT
GGACACACTGGACATGGTCTTCCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTGGAGGAATG
TGGCCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCCAGGTGCGCCAGACTTCCTAGCACA
CGTGCGCGGGAGCAGCTGCTTTGAGTGACACACTACCAATCGTTTCCTGGAATACAGGGAGGTGGTGGACGGCCT
GGAGAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCT**TGACT**GCCCCCCCCGGCCCCCTCTCGGGCTCT
CTCACCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCCTAAATG
CAAAGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAACTGCAACACTGGATTGTTCTTTTT
TAAGACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAAA
TATAAAATAGAAATTAA

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FIGURE 5959

MGDTKEQRILNHVLQHAEPGNAQSVLEAIDTYCEQKEWAMNVGDKKGKIVDAVIQEHQPSVLELGAYCGYSAVR
MARLLSPGARLITIEINPDCAAITQRMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVDTLDMVFLDHWKDRYLPD
TLLLEECGLLRKGTVLLADNVICPGAPDFLAHVVRGSSCFECTHYQSFLLEYREVVDGLEKAIYKGPGEAGP

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FIGURE 5960A

GGCGGTCCGGTCGGTGAGGCTTTCCCGGCTGTGGTTTGGCTGCGGGCGGGCTTGGGCAGCCCGCGGGCGCCTCAGGT
AGAAGAAGAAAGGTGCCACTCCGGCATGAAGACAGACTCGCTTAGTCGCCAGTCACTTAAGCTGAGTGCATTGTG
ATTTCCAATAATTGAGGCAGTGGTTCTAAAAGCTGTCTACATTAATGAAAAGAGCAATGTGGCCAGCTTGACTAA
GCCGCCAGCGCACAGCGCGGCAGGACGCGCCCCGGGTCTCAGCGGACTTGTGCATGTTAGCTGTGTAGATTTATGT
GAGGGCTTGTAAACTCTGGTCTTGTAAACTAGTCTTAAGCGCTTTTAATATGGAGACAGATGAGAGCCCCCTCTC
CGCTCCCGTGTGGGCCCGCAGGAGAAGCGGTGATGGAGAGCCGAGCTCGCCCCCTTCCAAGCGCTGCCCGGTGAGC
AGTCTCCACCACCTCCCTGCAAACGTCCAGTGGTGCAGAGGTAATGGACGTTGGCTCTGGTGGTGATGGACAGT
CCGAACCTCCCTGCTGAGGACCCCTTCAACTTCTACGGAGCTTCTCTTCTCTCAAAGGATCCTTCTCTAAGGGCC
GCCTCCTCATAGACCCGAAGTGTAGTGGCCACAGCCCGCGCACCGCCCGGCACGCACCTGCGGTCCGGAAGTTCT
CCCCTGACCTTAAGTTGCTTAAGGATGTAAAGATTAGCGTGAGCTTTACCGAGAGCTGCAGGAGTAAGGACAGGA
AGGTGCTGTACACAGGAGCAGAGCGCGACGTGCGGGCGGAGTGCGGTCTGCTCCTTAGCCCTGTCTAGTGGGGACG
TGCATGCTTGTCCCTTTGGCGGGAGTGTGGTGACGGGGTAGGCATAGGGGGTGAGAGTGTGATAAGAAGGATG
AGGAGAATGAGCTGGATCAGGAAAAGAGAGTGGAGTATGCAGTGTCTCGATGAGTTAGAAGATTTTACTGACAATT
TGGAGCTAGATGAAGAAGGAGCAGGCGGGTTCACGGCTAAAGCAATCGTTCAGAGAGACAGAGTGGATGAAGAGG
CCTTGAATTTCCCTACGAGGATGACTTTGACAACGATGTGGATGCTCTGCTGGAAGAAGGCCTTTGTGCCCCCA
AAAAGAGGCGAACAGAGGAAAAATATGGCGGAGACAGCGACCATCCGTCCGATGGAGAGACAAGTGTGCAGCCGA
TGATGACCAAGATTAAACAGTGCTCAAAAGTACGTGGCCGCCACCTACAGAGCCGCTGCCCGACGGGTGGATC
ATGACATTCCATAACTCTGGAGTCCCGGTGTACCTACACAGAGAGTCTCGGGTGGTCACCTGGTCCAGGCCATAC
TTCTTGGGAACGGGAAGCATACGGAACACGACCCCTCCTCTGAGTAGCATCCCTTGTCTGCATTATAAGAAAATG
AAGGACAACGAGGAACGGGAGCAAAGCAGTGACCTACCCCTAGTGGGGATGTGTCCCCCGTCAAGCCCTGAGC
CGATCTGCAGAGCTGGAGTTTCCCTGGATGAGCCTGACTCTATGGGTGCTGACCGGGGGCCCCGGACGAGAAA
GACCCACTAGGGGTGAGGCAGCCCTGGGGCCCTGGGGCAGTGAAGGCCAAAGTCGAGGTGTGCAAAGATGAA
TCCGTTGATCTCGAGGAATTTCGAAGCTACCTGGAGAAGCGTTTTGACTTTGAGCAAGTTACTGTGAAAAAATTC
AGGACTTGGGCTGAGCGGCGCAATTCAATCGGGAATGAAGCGGAAGCAGGCGGAGTCCGAGAGGCCCATCTTG
CCAGCCAATCAGAAGCTCAATTACTTTATCAGTGCAAGATGCACCCACAAAGAAAGAGTTTGTATTAAACCCCAAC
GGGAAATCCGAGGTCTGCATCCCTGCACGAGTACATGCAGCGTGTCTCAAGGTCCGCCCTGTCTATAATTTCTTT
GAATGTGAGAACCCAAAGTGAGCCTTTTTGGTGCCCTCGGTGACCAATTGATGGTGTGACTTACGGATCTGGAAGTCA
AGCAGCAAAAAACTTCCGAAGAATAAAGCTGCCCCGAGCTACACTGGAAATCCTCATCCCTGACTTTGTAAACAG
ACCTCTGAAGAGAAGCCCCAAAGACAGTGAAGAAGTTCGAGTATTTTAACCACATCAGCATCGAGGACTCGCGGGTC
TACGAGCTGACCAGCAAGGCTGGGCTGTTGTCTCCATATCAGATCCTCCACGAGTGCCTTAAAAGAAACCATGGG
ATGGGTGACACGTCTATCAAGTTTGAAGTGGTTTCTGGGAAAAACCAGAAGAGTGAATACGTCTATGGCGTGTGGC
AAGCACACAGTGCAGCGGGTGGTGTAAAGAACAGAGAGTTGGAAAGCAGTTAGCCTCACAGAAGATCCTTCAGCTG
CTGCACCCACATGTCAAGAACTGGGGGTCTTTACTGCGCATGTATGGCCGTGAGAGCAGCAAGATGGTCAAGCAG
GAGACATCGGACAAGAGTGTGATTGAGCTGCAGCAGTATGCCAAGAAGAACAAGCCCAACCTGCACATCCTCAGC
AAGCTCCAAGAGGAGATGAAGAGGCTAGCTGAGGAAAGGGAGGAGACTCGAAAGAAGCCCAAGATGTCCATTGTG
GCGTCCGCCAGCCTGGCGGTGAGCCCTGTGCACCGTGGACGTGTGAGGGAGGTGGCACGGGCCAGGGCGCGGG
GGCCGCCAGCCGCACTTCTGAGGAGACCAGCAGTGCATCGTGCACCACAGTGTGAGGCCTCCAACCCACGCT
CCTTCCCTGTGGCCAACCTGTGGGCCCGGCCTTAGGGTGGAGGCTTTAGTGTACAGGGACAGCCATGGCCACACA
GCACACATGTGGAGCAGCGGCTCTCCCTGGAAAGCTCCAGGCCTGAATGGATGGACTCAGCGACTGCACCAGTGG
CAGCTGGTGAAGTGTGGACAGTGGTGGACCCCTGCTTCTGTGCACCTGCTGCAGGCTCTTTTTATGAAGGCTTTTCAT
GAATTTTAGTATGTAATACGCACTGACGACACATGATGCTTGGATGACAGATGAGAGGGGATGGCTGAGTCTGT
GGCTGGCCCGTGATGCCAGGTGGCCCATGTGCCAGGGCGCCTGCAGGGCTGCTACAGGGACCTGGTCAGGAGGT
GCACATGGTGCCTTGCCTCACCCACCTCTGTGTTTCCCTTCTTTGAAAAGGTAGAAGAGAAAGGAATATTTT
AAACCTTTTGGCTTAAACAGAATTTTAGCATCAGAACTAGCTTTCTGGGATTGGAGGCAAACCATCAAGGTGGT
CCCTCTCAGTCTGGACACGATGCCAGCAAGGATGACGTCTGCCACCTCCTGGAGTTACCCTGGCCTCCTAGGG
TCCCTTTTCTGATGAAGTCTTAATTCCCTAAAAGCGCCTCTTTGGACACTGAGGCCCTCTCTGCCTTCTCTGGC
CTCCGGCAACAGTTTTTTACAAAGATTTTTTGCAGTCGAGTCCATATGTCCACCCATTGATTTTTAAAGCTTTTG
TGATATTTTAGCATTTTGAAGACTTTCACAGTGAGAGTAGAAGGTAGATTTGGAATCATGCATTTTAGCAAGTG

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FIGURE 5960B

GACTTGTTGAAACAGGAAGCAAGGGCCTTCAGTGTAGCCCATTCTTGATCCAGAGCTGTTGCCTGTGACAGCGGT
TTCTCTGGATGTCAAAGGCAGCTGCCTGGTGCCAGCTTGCTTCTCGACTGGTGGCCCCCTATGGGTGGGTGTGCG
ATGGAAATGTGTTCCCTGCCGGAGTCTGAGGCACCAGGGTGTGCTCAAAGGCTGGCCCTGGTGGTGGACTGGCACC
TGTGCAGAGTGCCGTGTGCTTGTGGTGCGCCATCTGAAGCAAGAGTCCAGCGTTCTGCCGTGTCTGTCCCCCACC
ATGCCCCCTACAGGCGGTACTGATGGCGCTTTTTTTTTTTTTTCTGTCAGGAAAACAATGTTGGCCTGTGGGCCG
CCCACAACATATCCTTCCCTCACTACCTGTGTGACCAAGGTTGGCTTCTGTTGACCTTTAAAAAAGAAACCCTCA
ACTCAAATTGCTATAATTAGACACTTGCTTCTGTCTTGCTCTGTCTGCAGCTGTGAATAGTCATTTGACTGTG
ACTGTTGCCCTTAGCCAGCCAGATGCGCCTGTGAACCAAAGCTTCGTGCACATGTGTTCCCTAAAGGTTGGGGA
GCTTCGCTGTGCTTGTGCTTCCCAGGCACCACACAGCAGGTGCTGCCATACTCTGTGGTCTCTGTGCGCCCC
CCCCCCCCCCCCACCCGTCTGCCAAGCATGGGTATGAATCGTGCACACAGCCATGCTTCAAGGCCGGGGCAGGGG
AGCCTGTGCTGATGCCATCCAGGGCACTGGGCTGTGCCTGGAAGGCGAGCCTTGATTGTCTGAACACATAAAGCA
AACTGTCCAG

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FIGURE 5961

GTTGCCAGAAGCCAGGATCATAGAGACGCTCGGCCTCCGCCGCACGCGCTGGCGGACTAAGAGTGGCTGGCGAAG
CGAGCGGGCCGGCGCGGGCCCCCTGGCGGGCGGGCGGTACAGCCCCAAGCCTGAGACCCGGAECTGAGCATCGCAGG
TTCGAGTCCCGCCCCGCCCTGGGGCGAAGCCGGGGGTGGCGGCGACCTCGCGGCGTTGCACCGGCTCTGTGAGCAC
CTCCCCCTCTGAGCACTTCCCTTGTGACAGGCCACTTCCCTTGTGACAGGCCCAGGACGAGGTGGCCAGGCGGGCC
CCATGGCGTCCCTGGTCTAGGCGGAGAACCGCCTGGGCGCATGAGTGAGAACCTCGACAACGAGGGCCCCGAAGCCC
ATGGAGAGCTGTGGCCAGGAGAGCAGCAGTGCCCTGAGCTGCCCTACCGTCTCGGTGCCCCCTGCAGCCCCGGCA
GCCCTGGAGGAGGTGGAGAAAGAGGGCGCTGGGGCGGTACAGGGCCGGGGCCTCAGCCCCGGGCTCTACAGCTAC
ATCAGGGATGACTTGTTTACCTCTGAGATCTTTAAACTGGAGCTGCAGAACGTGCCTCGCCACGCCAGCTTCAGC
GACGTCCGGCGCTTCCCTGGGCGCTTGGTCTGCAGCCCCACAAACCAAACCTCTTTGGGCAACCACCCTGCGCC
TTTGTGACATTCCGCAGCGCTGCAGAGAGGGACAAGGCCCTGCGCGTTTTGTCATGGTGCCCTCTGGAAAGGCCG
CCACTCAGTGTGCGCCTGGCCCCGGCCCAAGGCCGACCCCATGGCCAGGAGGAGGCGACAGGAGGGTGAGAGTGAG
CCACCAGTAACACGAGTGGCCGACGTGGTGACCCCTCTATGGACAGTGCCCTATGCTGAGCAGCTTGAGCGGAAG
CAGCTGGAGTGCGAGCAGGTGCTGCAGAACTTGCCAAGGAAATCGGGAGCACCAACCGTGCCTTGCTGCCCTGG
CTGCTCGAGCAGAGGCACAAGCACAAAGGCCCTGCTGCCCGCTGGAGGGGGTCAGGCCATCACCCAGCAGACT
GAGTATCGTAATAAGTGTGAGTTTCTGGTTGGCGTCGGGTGGATGGGGAGGATAACACCGTGGGCTGTGCGCTC
GGCAAGTACAAGGGCGGGACGTGTGCTGTGGCAGCCCCGTTTGACACCGTGCACATCCCCGAAGCCACCAAGCAG
GTGGTGAAGGCCTTCCAGGAGTTCATCCGGTCCACTCCATACTCGGCATACGACCCAGAGACGTACACAGGCCAC
TGGAAGCAGCTGACTGTGCGCACCCAGCCGCCGCCACCAGGCCATGGCCATTGCCTACTTCCACCCCCAGAAGCTG
AGCCCTGAGGAGCTGGCAGAGCTGAAGACCTCCCTAGCGCAGCACTTCACAGCAGGGCCAGGCAGGGCCAGTGGA
GTGACCTGCCTCTACTTCGTGGAGGAGGGACAGCGAAAGACTCCTAGCCAGGAGGGCCTGCCCCCTGGAGCATGTG
GCTGGGGACCGGTGCATCCACGAGGACCTGCTAGGGCTGACCTTCCGGATCTCTCCACACGCCTTCTTCCAGGTG
AACACACCCGCAGCCGAGGTGCTCTACACAGTCATCCAGGACTGGGCCCCAATTGGATGCGGGGAGCATGGTGCTG
GACGTGTGCTGTGGCACCAGGCACCATTTGGCCTGGCCCTGGCCCGGAAGGTAAAGAGGGTCATTGGGGTCGAGCTA
TGCCCAGAGGCTGTGGAGGACGCCGGGTGAACGCCAGGACAATGAGTTGAGTAATGTGGAGTTCCACTGCGGG
AGGGCCGAGGACCTGGTGCCACCCCTGGTGGGCAGACTGGCCTCCCAGCACCTCGTGGCCATCCTGGACCCACCC
CGTGCTGGCTTGCATTCCAAGGTGATCCTGGCCATCCGGAGAGCTAAGAACCTCAGCGGCTGCTGTACGTCTCA
TGCAACCCCCGGGCAGCCATGGGCAACTTTGTGGACGCCCCCTTTTCCCCCACAGCCTCTGCAGAGCCCCATC
TAACCGGGTGAAGGGCATTCCCTTCCGGCCGGTCAAGGCTGTGGCAGTGGACCTGTTCGCCGAGACCCGCACTG
TGAGATGCTCATCCTGTTTGTAGAGGGTGGAGCACCCCAATGGCACAGGGGTCTTGGGGCCCCACAGCCCTCCAGC
TCAACCCACACCAGGACCCCCAGATAACACCCTACAAGAACTGGGACCTTCCCCCTCATCCTAGGCCCAGGACCC
ATTATGGGGACAGGAGCTGAAGGGCTCCCAGGGCCCCAGGGGCGGGGAAGGCATGGCTTGCTGGCCAGGATATTC
AGAGGTAGGCAGCCAAAGGGCACAGAACCCTGTGCCCCACCAGGATTGGCCTGCTGCTAGGGGCCAGGGGCCCTG
ACCAGGAAGACAGGTGGGTTCCCTGTAGCCTGTTGCCATCCCCAGGGCCTTTGTGGACTAGCCAAGGCTGTGAGG
GCCAGAATAACAACCTGCTCAAC

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FIGURE 5962

MSENLDNEGPKPMESCGQESSALSCTVSVPPAAPAALEEVEKEGAGAATGPGPQPGLYSYIRDDLFTSEIFKL
ELQNVPRHASFSDVRRFLGRFGLQPHKTKLFGQPPCAFVTFRSAAERDKALRVLHGALWKGRLSVRLARPKADP
MARRRRQEGESEPPVTRVADVVTPLWTVPYAEQLERKQLECEQVLQKLAKEIGSTNRALLPWLLEQRHKHKNKACC
PLEGVRPSPQQTEYRNKCEFLVGVGVDGEDNTVGCRLGKYKGGTCAVAAPFDTVHIPEATKQVVKAFQEFIRSTP
YSAYDPETYTGHWKQLTVRTSRRHQAMAIAYFHPQKLSPEELAELKTSLAQHFTAGPGRASGVTCLYFVEEGQRK
TPSQEGLPLEHVAGDRCIHEDLLGLTFRISPHAFFQVNTPAAEVLYTVIQDWAQLDAGSMVLDVCCGTGTIGLAL
ARKVKRVIGVELCPEAVEDARVNAQDNELSNVEFHCGRAEDLVPTLVGRLASQHLVAILDPPRAGLHISKVILAIR
RAKNLRRLLYVSCNPRAAMGNFVDAPLFPPQPLQSPI

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FIGURE 5963

CAGTGGCTCACACAGGTACCTGCACGCCAGGGCCTGCCCTCCCCGCCCGGCACTCCCCACTCACCAGGGCCCTC
TGCCAGCCCTACACGGCACACGCTGGTTAAGAAGGTGTCCGGCGTGGGTGGGACCACCTACGAGATCTCGGTGTG
AGGACTGACTGCCACACATCCGCCATGGTGCCACGGGGACCAGGACCCACAGCGCACCCCCCTCCCCACCAAC
TTCTCTGCCCCAGGGACCCGAGGCCACCCAGCCTGGTGTGGACCCATCGGCGGGAGAGAGTGCCACGCCTCCAC
AGCTTGCCCCAAGCGCTCTGCCTGCCCGTCCACTCATCTGCCCATGGGGAAGTCGGCTCACTGGGACAAGGGCCA
CTGGGCTGGTCTGTGTCTGGGCCTGTCCCATGGCTGGGGCAGTGAGGGGGCCAGTCAGCCTCTTTGGGGCACCC
TCTCTCAGCCAGGCTTGCCCCACTGCCATCAGCCAGCACCCAGATCAGCGCCAGGCCAGCCCCAATGGTCCCC
TTACGGACAGGTCCCAGAGATGGACAGAGGCACCCAGGGCCCCCACCCTCCTTCTGACACAGCCTGTGGGCTCCC
GGACCGAGTGTCCCCGCCAGGCTACTCCTAACTAACGCGTTGCCTTTTCAGGACCCCGCTGGAAGCTTGTAGCT
TGGCAAGGCTGATGCTTCTGCCCTGGCCTGCTCTGGGTGGTGGTGGA

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FIGURE 5964

TCTTCTCGAGGCCTCCGTTGCCTCGTCTGTGCCCCGGGCGGTGGTGCTTACCCGGCGGGGTGCGAGGGAGGTCTCG
TGGCGGCGCGTGTGGGTCTGCGTTTCCCCCTCTGGGGTGCTTGGGCAGCATGAGCCCAGGGCTGTGGACAGCCTG
GTGCTCACGGGTTTGTGGCTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAACTGC
CAGCGGCTGGACCCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACACTTT
GAGGAGGACTGACCGAGGGGCTGCCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACCAGACCCACCAGG
TGCCATAATAAAGCGGATTCTAGACGGAG

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FIGURE 5965

CGTGAGTGCCGCTGACAGAAGTCAAGAGAAATCGGCTGGGACGGGGTTGGGGCGACAACGGGCCGGGGGGGACCCG
ACAGGCCAGAGCCCCCTTGGGGAGGAGCGGCGGGCTGGAGGCGCGAGGCTCCTCCGGATGCCCGGAGAGCCGCTTGC
GACTTAACTCCCGCCTCTTTCCCAGATGCCGCGTCACTGCTCCGCCGCGGCTGCTGCACACGGGACACGCGCGA
GACGCGCAACCGCGGCATCTCCTTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAA
CTGCCAGCGGCTGGACCCACAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACA
CTTTGAGGAGGACTGCTTTGAGCTGGTGGGAATCAGTGGATATCACAGGCTAAAGGAGGGGGCAGTCCCCACCAT
ATTTGAGTCTTTCTCCAAGTTGCGCCGACAACCAAGACCAAAGGACACAGTTACCCACCTGGCCCCCCTGAAGT
CAGCCGGCTCAGACGATGCAGGAAGCGCTGCTCCGAGGGCCGAGGGCCACAACCTCCATTTTCTCCACCTCCACC
TGCTGATGTCACCTGCTTTCCTGTGGAAGAGGCCTCAGCACCTGCCACTTTGCCGGCCTCCCCAGCTGGGAGGCT
GGAGCCTGGCCTTAGCAGCCCCCTTTCAGACCTACTGGGCCCCCTTGGGTGCCAGGCAGATGAAGCAGGCTGCAG
CGCCAGCCTTCACCAGAGCGGCAGCCCTCCCTCTCGAACCACGGCCAGTCTCCCCCTCAGCGTATATGCTGCG
CCTGCCCCCACC CGCGGAGCCTACATCCAGAATGAACACAGCTACCAGGTGGGCAGCGCCTTACTCTGGAAGCG
GCGAGCCGAGGCAGCCCTTGATGCCCTTGACAAGGCCACGCGCCAGCTGCAGGCCTGCAAGCGGCGGGAGCAGCG
GCTGCGGTTGAGACTGACCAAGCTGCAGCAGGAGCGGGCACGGGAGAAGCGGGCACAGGCAGATGCCCGCCAGAC
TCTGAAGGAGCATGTGCAGGACTTTGCCATGCAGCTGAGCAGCAGCATGGCCTGAGGGGCTGCTGGACTGACCGA
GGGGCTGCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACAGACCCACCAGGTGCCATAATAAAGCGG
ATTCTAGACGGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5966

MPRHCSAAGCCTRDTRNTRNGISFHRLPKKDNPRRGLWLANCQRLDPSGQGLWDPASEYIYFCSKHFEEDCFEL
VGISGYHRLKEGAVPTIFESFSKLRRTTKTKGHSYPPGPPEVSRLRRCRKRCSEGRGPTTTPFSPPPPADVTCFPV
EEASAPATLPASPAGRLEPGLSSPFSDDLGLGALGAQADEAGCSAQPSPERQPSPLEPRPVSPSAYMLRLPPPAGAY
IQNEHSYQVGSALLWKRRAEAALDALKQAQRQLQACKRREQRLRLRLTKLQQERAREKRAQADARQTLKEHVQDF
AMQLSSMA

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FIGURE 5967

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCTGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCAGGGGAGCAGGACGCCCGGGCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACCTTGCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCACTGATGGCATTGAGAAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACCTCCTTTTATAATTATTCAGTCTTTTGTGAGTGAATAGACATCTTGCCCTCCTGAAGTAG
CTTCATCACAGAGTGTGATGAAGACAGACAGTCAGGCTGAAAAGGACAGTCTTTGTGGACTCTACCCCTCCCTT
CAAGGAGTATGTGATATGTACAAAAGAAATTCCTTACACTGGTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAGTGACAGACAAATCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAAGTATTTTAAATATGGTTTTTCAGTGCTAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGCTACCTAATTGCTGTCTCCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAACCTCCTTTAGGTTTTTGCAAGTAGATTTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACTCTGTGCCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTGATAATCACTGTTACATCCAGTGCCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAACAACAAAAA

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FIGURE 5968

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCAGGGGGAGCAGGACGCCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACTTCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAAATGCTTGAAGTAAGCAACTGATGGCATTGTGAAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACCTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACCTCCTTTTATAATTATCACTGCTTTTTGTGAGTGAATAGACATCTTGCCCTCCTGAAGTAG
CTTCATCACAGAGTGTATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTCCCTT
CAAGGAGTATGTATATGTCACAAAAGAAATTCCTTACACTGGTTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAGTGACAGACAAATCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAGTATTTTAATATGGTTTTTCAGTGCTAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAACCTCCTTTTCAAGTTTTTGAAGTAGATTTTGTAAATGTTTGTGATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACCTCTGTGCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCCTGAGGGACTTTGTATATACTGTTACATCCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAA

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FIGURE 5969A

CAAGAACGTCTAGCCGCCAGCAGCATCTATTTCAAGTCCCTGGTCTGCACGACAACCTCATCAACCTGGACAC
AGACATGGTCAGCTCCACAGTGTTCAGCAGATCTTGGACTTCATCTACACAGGCAAGCTGCTGCCCAGCGACCA
GCCAGCCGAGCCCAACTTCAGCACCTCCTCACTGCCGCCAGCTACCTCCAGCTGCCCCGAGTTGGCAGCCCTCTG
CCGCCGCAAACCTCAAGCGAGCCGGCAAGCCCTTTGGCTCTGGGAGGGCGGGGTCCACTGGCATGGGGCGGCCCCC
CCGCAGCCAGCGGCTGTCCACGGCCTCTGTTCATCCAAGCTCGGTATCAGGGGCTCGTGATGGGCGCAAGGGGGC
CCACGCCCCCAGGAGCTCCCCCAAGCCAAAGGCTCAGACGATGAACTCTTTCTTGGTGGCTCTAACAGGATAG
CGTGCAAGGTCTGGGCCGGGCTGTCTGCCAGCTGGCGGGGAGGCGGGTCTGGGGGGCTGCAGCAGCAGCACAA
CGGGAGCAGCGGGGGCTGCGAGCAGGAGCTGGGCTTGGACCTGTCCAAGAAAAGCCACCCTTGCCCTCTGCCAC
CCCAGGTCCCCACCTCACTCCCGATGACGCAGCCAGCTGAGCGACAGCCAACATGGCTCGCCCCCTGCGGCCTC
TGCTCCTCCCGTTGCCAACAGTGCCCTCTTATTCTGAGCTGGGGGGCACCCTTGATGAGCCCATGGATCTGGAGGG
GGCCGAGGACAACCACCTGAGCCTGTGGAGGCGCCTGGTGGGCAGCCTCGGAAGAGCCTCCGGCACTCCACTCG
GAAGAAGGAGTGGGGCAAGAAGGAGCCTGTGGCTGGCTCCCCCTTTGAGCGGAGAGAAGCAGGGCCCCAAGGGTCC
CTGCCCCGGGAGAGGAGGGTGTGGGGGTGCGGGACAGGGTTCCCAATGGCATCCTGGCTAGTGGGGCTGGCCCTAG
CGGGCCCTATGGGGAGCCCCCTACCCCTGCAAGGAGGAGGAGGAGAACGGCAAGGATGCAAGTGAAGACAGTGC
GCAGAGCGGGAGCGAGGGGGGAGCGGCCATGCCAGCGCCCACTACATGTACCGGCAGGAGGGCTACGAGACGGT
GTCCTACGGGGACAACCTGTATGTGTGCATTCCCTGCGCCAAGGGCTTCCCCAGCTCTGAGCAGCTCAATGCGCA
CGTGGAGACTCACACGGAGGAAGAGCTGTTTCATCAAGGAAGAGGGGGCCTACGAGACAGGCAGTGGGGGTGCCGA
GGAGGAGGCCGAGGACCTGTACGACCCAGTGGCGCTACACGGCTGAGCCCCGGCCCTTCAAGTGTTCGGTCTG
CGAGAAGACCTACAAGGACCCAGCCACGCTGCGGCAGCACGAGAAGACGCACTGGCTGACACGGCCCTTCCCCTG
CAACATCTGTGGCAAAATGTTACGCAGCGCGGCACCATGACGCGTCACATGCGGAGCCACCTGGGCCTGAAGCC
CTTCGCTGCGATGAGTGTGGCATGCGCTTACCCGTCAGTACCGCCTCACGGAGCACATGCGTGTGCACTCGGG
CGAGAAACCTTACGAGTGCCAGCTGTGCGGGGGCAAGTTACCCAGCAGCGCAACCTCATCAGCCACCTGCGCAT
GCACACCTCCCCCTCCTAGAAGCCAAAGACCCGCGGGCGCCCTTGCCACCTTGCTCCCCGGGAACCCATGGAAG
GAGAAGCGAGGTGATGCAGCAGCAGGGGCAAGACCTGGGTCCAGTGGAGGCTCCGGGTGGCCCCCTCTGCCCCC
ACTGCCCACACCCAGAGCTTTAATGGACAGTCCGTACCAAGCAGAGCCGAGAGGAGGAAGCCAGGGGTCCCAGC
CCGTCTACCTCCCCATCCCACCCAGGCCCCAGCTCCCGCGGGGGCCACCGCAGGGCCTGTGGGCTGGGTACG
TGGGTCTCGCTGGGACCTGGTCCCTTTGTTGAGCGGGCTTGAGAAAGGGCAGTGGGACGCTGGCCACGCGCCAG
GGTGGTGTGCGGAGCAGGCCTACCCCGCTGGCCGTGTGTGTGTGTGACGCTGTGCTGTGTGTGCGGGCG
CGTGCAGCCCTGGTTCTGCAGGGAACAGGTGCTGGGGGTGCAGATCCCTCCCTCCTTGAGCCAGGGTGGCACTGT
TCACTGGCGCTGGGACAGTCAGGGTGACCCACCGCCTACCTCTACATCTAAAGAGCCCTCTGGGCCTGTGTT
GCTGTTATTCTACTGATCTGTTCTCTGTTTTCTTTTTGATTTTTGTTTTTAAACCAAAACAGACAATAGCT
TATTTTCTTTCCGCCCCCTCCGGGGCTGAGCCTGGGTCTGAAGACTGAATGTAACAGGGGCGCTGGCACTCCTG
CGCGTCCCCCGGCTCTGGCGCTGCAGGGGTGTCGGCGCGCCACCTCTCCAGGCCCCAGAAGCCCTTCTTGCCAA
AGGCTTCCCTGGTCCCTGAGCCCTGCCTCGGCTGCCTCAGGGGAGAGTGCTTTTCTGTAGTTTCCAAGGAATAT
TCTTTGTTTAGAGGTACTTGTTTTTTATTAAGAGAAAAACAGTGTAACGTTTATGTGACTGTTGAACTGGAAG
GTCTGGGGTTCCGGGGGGTGGGGGGAGGCTAGACTCAATGCCGGGGCGCTCGGTACTCTTGTTTTCATTTGTGTG
TGCGTGCCTGTGTGTGTGTGTATGTGCGTATGTGTGTGTCTATGTGTGGTGTGTGCCGTATGCATGGGCAGATGT
TTCGCTTTCCCTCCTTCCCTCGCTGAACAAGGTGGAGACTTCTGACCTTTTGCTACCTCTTGAATTCATGACAACG
ATATGTTGGTGACTGGCAGTGGAAGCCCTTGACACTCTTGTTTTCTTCGCTTAGCACCTAGGAAGTCGTGTGCA
GGAGCCAGCAGGGCGCCAAGTGGCCAGTGCTGCAGCTCACCTGTGGGTTTTCCCTTTGAGCCTTTGGCCACAT
CCACCTCGAGGGGACCCTGGCACCCCGGCACACAAACCTCTGTGGTATAGGTGAGGGGTGTGAGGCCCCAGCCT
GGAGCCAGGCACTGGGTGCTGACAGGGGAACCATGAGGAGGGTGGCAGGTCTTTCAGCTCCCGGCCAGGGTGTG
GCGGAAGTGAGCCCTCATCCTGCCACTCCTATCCTCCATTCTGCAAGAGTTTTAAGCTTGAGAGAGCTGACCAC
AGGGCCCCCGGGGAACAGGGATGGCACTTCCCTGAGCAGTCTGGCCCCCGGCCACTGTCTCGGGGCCACCTC
TCGCCCCCTCATCTTGGAATTAGCCAGCCTCAGATACTTCTGTGGGCCCTGAAGTGGGCTCTCAAGGTGAGACCA
AGGTTGCTGATCTCAGTCCCACTGTCTTCAGCCAGCTGAAGCTGTGGGGCTGGGCTGGCAGCCTTTATTGTATC
TTGCTTACCATTTTTTTTTCTCTCTCTTTTCACTTATTTTAAGTTTAGACCAAAAAAATACAGAGTCATCCCC
TACCCCCACCCCTCTAGAGACCCTCCAGCTAAAAACAGAGCCTGAGTTCAGGGACCCAAGTGGTGAGCGGCGTCT

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FIGURE 5969B

TTTGGGGGTGAGGGAGCTTGGGTAGATGAGGCTCCTGGCTGAGCCCTCCCTGTGGTGATCCCAGCCTAAGATGGC
CCCTCTTCCCTCCTGGTGGGAGACAGAGGACTGGACCCTGGGTCTCAGGTTCCAGCAAGTCAGGCTAGGGACCTG
GGGGGAGGAGACCCATGGACTTCACCCATACTCAGTGAGGGGGCTCCTGCCGTCTGACGCCACCCCGCCCCATC
AGCACTTAAGCCACATGACACAAAGTCTGTACCGCACGGGAAATGTTACGCGCCTGGCCGTGTGCATGGCCCTCC
CGGGCTGTGGGCAGCCGCATCTGTGAGGTGACTCGTGAAAGTAGGTGATTCTTTGCGAACTTCAGGGACTGGG
AGCAGAGGCCCCCTACTCAACGACGTTTGTGCGACATAGTATTGTATCCACCTTAGTATTGTATCGAGCCTTTTC
TGTGTTTTAATGAGAAAGCAGAACTAGTTTCTATTAAAGACTTTAAGGGTTTGTGGGGCGGGCGGGATTAA
CACAACATTTGGCTTTGTTTTCTTTTCCCTTTGATTTCCACATCAGGTGTGTGCGAGTGTGTGTGTGTGGAGATG
TTAAGAGCCTCACAAGGAACTGGGTTATTGGAGGCCAAGGCGGCTTACAGTTCTCTGCGTTCGTCACTTAATTC
CTGAATGTTTCAGAGAAACAGGAATCAGAAAAATAGCAGATATCATGTAGGAAAGAGAGGATAAAACAAAGAAAAA
GAAAAAAAATAAGCTCATACCCAAATTCACAAAGCCTATTTTTTAAACCAAAGCACATTTTGAATGAGTATGGA
ACCTCCATGGGCTCAGAAAAAGATGCTAATATATTATCTCATTGTTTACATAAGCTTTTACAGTTTCAGACCT
CAGCAGCTGTAAGGCCAGTCCAGGGAACCTCCCTGCTGCTGGAACCCCTTCTGAGTTGGCCCTGGAGTGGCTC
ACGGGCAGAGAAGGGTAGCCCTGGGGCTGGGGGAGGGATTGGAAGCCTCCCTGGAGTCACCTGAGCCCTCGTCCC
CATTCCCAGGGCCCCCTCCAAGCCAGCTGGCACCAAGAGCTTGGGCCCCGTGCTGACAGCCCCCAAGGCCCTCT
GGCCGGACCATGCTGGTCCTGACCAGCTAGCCTACGCGGGGATGGCCGTCACTTCTGGCCACAGGACCCGAGTCT
GGGCTTGGGTCCCCCTGCTGCTCTGCCCCGACCCCTTGGGGATGGGTTGATGCGAGGGTCCCCTCAAGCCAAAA
AGCCGGGACCTTTGCGCAGCTCTGTGCACTCTGGTGGGTCCCCACTCCTGGGGCCCCCTAACCCACCCAGGCA
GCGGAAGGGGCTGACTGGGTCTGGTCCTTACCAACATAGACGGTGCAAACACTCTTAACAGTGTGTTTTTGTAT
CAATATGTTTGTGAGTGATGAATGTATTTATTTCTCAGACTTGGGGCGAGTGAGCGGGTGGCAGGCCGGGCTCC
GCCACTGCATGCTCCCGCCGGACCGAGCCCCAGCAAGGGCTCCTCCAGGATTGCAAAAAAAGGAAGAGAAAA
GATGAACCTTTAAGCAAATAAGAATCTCAGAGACTCGCAGCATAGCCATACCTCAGCCTGTGAAATGAACGAT
CCGGACCCCTCACCAACTTTCCCCACCTCAGGCAGCCCTGTGTGTTTACCGTTCATCACCCTCGGGGGACCGGG
CCGCCCCACCACTCCCAAAATCCGTCAGTATTCACTGGACCTCAGGCCCTGTGCAAGGAGTGCATCCGGGCTGGG
CCGCTGGGCAGGCTGACCCCTGCCCTCCTGCGGCCATCCTGAGTTGGGGTGAGGCCTGGGCAGCCGGAGGGCAG
GGCTCAGGGAGCAGGAGGCTGCATCCGTCCACCCCAAGCGTGGGGGACAAAAGCCAAAGGTGCCAGGCCTTAGA
GCAGACAAGGGCTCTCAGCCCTGGCATGCCCCCTAAAGGGACCAAGGTCTCTCTATTTCCAGAACCCCGTTGGG
GCAGATGTTACTGAACCTGTGAATCAGACGCCAGGAGTGAGGGCTGGGGAGGGACCTAACTGGAGCCTCAGTCTG
ACATTCCACGCCGGGGTGGGGGTGGGCATGAGCGGTGGGAAGTGGGCTGCCAGGACCCCTTCTAGGATGCC
CCGGCTTCAGTCACCCCACTTTAACTTTCTACCAGGACCCCTCCCCCTACCTCACCTTGCTATTTATTGCTGTA
ATTTATTGACCTCAAAAATGCTGCATAACAGACCTCACTGGGGCAGGGAGGATCCCCAGGGCTCCCACCTCCAC
TTGGCGGGCCCCGTGGGGCCAGGTGCTGAGGGGAGCCTCTCTACCCACCCATCACTAGCTTCCCTCTGCCCTCT
CCCACCCCGGGGGGACCCAGGTGGGCACCTGGCTCATTCTCGCAAATACCTCGAAGGGGAGGGGGGAGGGATG
GGGTTATAGCTGTTTTGTTAATTGGAAGTGAAGAGGGATCATGTTTGTGTTTATGCCCTTCCAGAAGGGGGG
AGGGACACCGGGATCGCACTCCTGTACTGGCCACCGCCGCTGTCACTTGTACATTGAGTTCATGTCCCTTGAGA
GTTTGTATAAATTCAGGTGAGAGCTGCAGCTACACAGCTGCCAGTGTATAGAAAAGCAATTCACCAACGACTG
ATCTCTCCATTGAGAAGTGTGAGTCTTAAATGTACAGCGATAAGAACTGTTATTTTATGATCTTTTCATTAAA
AGCTTGATTG

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FIGURE 5970

MVSGPLALRWCAWAGRGDMGPDMELP SHSKQLLLQLNQORTKGFLCDV IIMVENSIFRAHKNVLAASSIYFKSLV
LHDNLINLDTDMVSSSTVFQQILDFIYTGKLLPSDQPAEPNFSTLLTAASYLQLPELAALCRRKLKRAGKPFSGR
AGSTGMGRPPRSQRLSTASVIQARYQGLVDGRKGAHAPQELPQAKGSDDDELFLGGSNQDSVQGLGRAVCPAGGEA
GLGGCSSSTNGSSGGCEQELGLDLSKKSPPPLPPATPGPHLTPDDAAQLSDSQHGSPPAASAPPVANSASYSELGG
TPDEPMDLEGAEDNHLSLLEAPGGQPRKSLRHSTRKKEWGKKEPVAGSPFERREAGPKGPCPGEEGEGVGDRVPN
GILASGAGPSGPYGEPPYPCKEEEEENGKDASEDSAQSGSEGGSGHASAHMYRQEGYETVSYGDNLYVCIPCAKG
FPSSEQLNAHVETHTEELFIKEEGAYETGSGGAEEEEAE DL SAPSAAYTAEP RPFKCSVCEKTYKDPATLRQHEK
THWLTRPFP CNICGMFTQRGTMTRHMRSHLGLKPFACDECGMRFTQYRLTEHMRVHSGEKP YECQLCGGKFTQ
QRNLISHLRMHTSPS

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FIGURE 5971

GGGCTGTCCGGCCCACTCCCCTGGGAGCGCGAGCGGTGGACCCAGGCGGCC**ATGT**CCCCGCCCTCGCATGCGCCTG
GTGGTCACCGCGGACGACTTTGGTTACTGCCCCGCGACGCGATGAGGGTATCGTGGAGGCCTTTCTGGCCGGGGCT
GTGACCAGCGTGTCCCTGCTGGTCAACGGTGCGGCCACGGAGAGCGCGGCGGAGCTGGCCCGCAGGCACAGCATC
CCACGGGGCTCCACGCCAACCTGTCCGAGGGCGCCCCGTGGGTCCGGCCCGCCGTGGCGCCTCATCGCTGCTC
GGCCCGGAAGGCTTCTTCCTTGGCAAGATGGGATTCCGGGAGGCGGTGGCGGCCGGAGACGTGGATTGCGCTCAG
GTGCGGAGCCGCAGCTACAGGAGGATGCTCGCGAGGACCCCCAGAGCTCCGCCCCGAGGGTACTGTGAGGCCGTT
AGGAGCTGGCGGTGGATGACTTCCGCATTCAAACACTGGAGCCATCACACGGAAGCACGAGGAGGGTATCCTCGG
CAGCTACTCCCGGTGCTCAAGGTGTCTCTCGCTCGCCCTCTAGGTGCGGGAGGAGCTCGAGGCCCACTAAGCT
GCTTCCGGGAGCTGCTGGGCAGGGCCCCCACGCACGCGGACGGGCACCAGCACGTGCACGTGCTCCAGGTGGAC
AGACGCCTTCGTGGGCCTGAGCACTTGCGGCCGGCACATGTCCGCTCACCGCGTGTCCGGGGCCCTGGCGCGGGT
CCTGGAAGGTACCCTAGCGGGCCACACCCTGACAGCCGAGCTGATGGCGCACCCCGGCTACCCAGTGTGCCTCC
CACCGGCGGCTGCGGTGAAGGCCCCGACGCTTTCTCTTGCTCTTGGGAGCGGCTGCATGAGCTGCGCGTCTCTCAC
CGCGCCACGCTGCGGGCCAGCTTGCCCAGGATGGCGTGACGCTTTGCGCCCTCGACGACCTGGACTCCAAGAG
GCCAGGGGAGGAGGTCCCCTGTGAGCCCACTCTGGAACCCTTCTTGGAACCCTCCCTACTCTGACCCCTACAGA
CAACCAAGCACTAATCCCCTTAGTACCAAGAAAGGGGAGCCAGGATTTAGTCCTGGCCCAGCCCAGAGCTGGGAC
CTGGAGCACGATCTGTGACTTCCCTGGGTAGGACACTGCCACCTCTGGGCTCAGGTCCTCATGCCCTCCAAATGG
CATCTAGAGTTTGAGCAGCCTTCTTGCTGACAGGCAGGCCTAGCCTGTGGCAGCGGGCTAGGGCCCGCAGAGCAT
TTGGTGCCCTCCATGTTGCAATGCAAACACCTTCACCACTGGGGCAGTGGGAGAGATGGCTATATTAATAAAA
TAACGTGTGTCTTC

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FIGURE 5972

MSRPRMRLVVTADDFGYCPRRDEGIVEAFLAGAVTSVSLLVNGAATESAAELARRHSIPTGLHANLSEGRPVGPA
RRGASSLLGPEGFFLGKMGFREAVAAGDVDLPQVREELEAQLSCFRELLGRAPTHADGHQHVHVLPGVCQVFAEA
LQAYGVRFTRLPLERGVGGCTWLEAPARAFACAVERDARAAGVGFSSRHGLRWTDFAVGLSTCGRHMSAHRVSGAL
ARVLEGTLAGHTLTAELEMAHPGYPSVPP TGGCGEGPDAFSCSWERLHELRLVLTAPTTLRAQLAQDGVQLCALDDLD
SKRPGEEVPCEPTLEPFLEPSLL

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FIGURE 5973

GCTGGAGCCGGGCCGGGGCGATGTGGAGCGCGGGCCGCGGCGGGGCTGCCTGGCCGGTGCTGTTGGGGCTGCTGC
TGGCGCTGTTAGTGCCGGGCGGTGGTGCCGCCAAGACCGGTGCGGAGCTCGTGACCTGCGGGTCGGTGCTGAAGC
TGCTCAATACGCACCACCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGG
TGACCGGCGTAGAGGCGTCGGACGACGCGAATAGCTACTGGCGGATCCGCGGCGGCTCGGAGGGCGGGTGCCCGT
GCGGGTCCCCGGTGCGCTGCGGGCAGGCGGTGAGGCTCACGCATGTGCTTACGGGCAAGAACCTGCACACGCACC
ACTTCCCGTCGCCGCTGTCCAACAACCAGGAGGTGAGTGCCCTTTGGGGAAGACGGCGAGGGCGACGACCTGGACC
TATGGACAGTGCGCTGCTCTGGACAGCACTGGGAGCGTGAGGCTGCTGTGCGCTTACAGCATGTGGGCACCTCTG
TGTTCCCTGTCAGTCACGGGTGAGCAGTATGGAAGCCCCATCCGTGGGCAGCATGAGGTCCACGGCATGCCCAGTG
CCAACACGCACAATACGTGGAAGGCCATGGAAGGCATCTTCATCAAGCCTAGTGTGGAGCCCTCTGCAGGTCACG
ATGAACCTCTGAGTGTGTGGATGGATGGGTGGATGGAGGGTGGCAGGTGGGGCGTCTGCAGGGCCACTCTTGGCAG
AGACTTTGGGTTTGTAGGGGTCCTCAAGTGCCTTTGTGATTAAAGAATGTTGGTCTATGA

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FIGURE 5974

MWSAGRGGAAPVLLGLLLALLVPGGGAAGTGAELVTCGSVLKLLNTHHRVRLHSHDIKYGSGSGQQSVTGVEAS
DDANSYWRIRGGSEGGPCGSPVRCGQAVRLTHVLTGKNLHTHHFPSPLSNNQEVSAFGEDGEGDDLDLWTVRCS
GQHWEEAAVRLQHVGTSVFLSVTGEQYGSPIRGQHEVHGMP SANTHNTWKAMEGIFIKPSVEPSAGHDEL

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FIGURE 5975

GCTTCAGGGTACAGCTCCCCGCAGCCAGAAGCCGGGCCTGCAGCGCCTCAGCACCGCTCCGGGACACCCACCC
GCTTCCCAGGCGTGACCTGTCAACAGCAACTTCGCGGTGTGGTGAACCTCTCTGAGGAAAAACCATTTTGATTATT
ACTCTCAGACGTGCGTGGAACAAGTGACTGAGACCTAGAAATCCAAGCGTTGGAGGTCTTGAGGCCAGCCTAAG
TCGCTTCAAAATGGAAACGAAGGCGTTTGTGGGGTTCCATTTCAGAGCCGATACATCAGCATGAGTGTGTGGACAAG
CCCACGGAGACTTGTGGAGCTGGCAGGGCAGAGCCTGCTGAAGGATGAGGCCCTGGCCATTGCCGCCCTGGAGTT
GCTGCCCAGGGAGCTCTTCCCGCCACTCTTCATGGCAGCCTTTGACGGGAGACACAGCCAGACCCTGAAGGCAAT
GGTGCAGGCCCTGGCCCTTACCTGCCTCCCTCTGGGAGTGCTGATGAAGGGACAACATCTTCACCTGGAGACCTT
CAAAGCTGTGCTTGATGGACTTGATGTGCTCCTTGCCCAGGAGGTTGCCCCAGGAGGTGGAAACTTCAAGTGCT
GGATTTACGGAAGAACTCTCATCAGGACTTCTGGACTGTATGGTCTGGAAACAGGGCCAGTCTGTACTCATTTC
AGAGCCAGAAGCAGCTCAGCCCATGACAAAGAAGCGAAAAGTAGATGGTTTGAGCACAGAGGCAGAGCAGCCCTT
CATTCCAGTAGAGGTGCTCGTAGACCTGTTCTCAAGGAAGGTGCCTGTGATGAATTGTTCTCTACCTCATTGA
GAAAGTGAAGCGAAAGAAAAATGTACTACGCCTGTGCTGTAAGAAGCTGAAGATTTTGAATGCCCATGCAGGA
TATCAAGATGATCCTGAAAAATGGTGCAGCTGGACTCTATTGAAGATTGGAAGTGACTTGTACCTGGAAGCTACC
CACCTTGGCGAAATTTCTCTTACCTGGGCCAGATGATTAATCTGCGTAGACTCCTCCTCTCCACATCCATGC
ATCTTCCTACATTTCCCGGAGAAGGAAGAGCAGTATATCGCCCAGTTCACCTCTCAGTTCCTCAGTCTGCAGTG
CCTGCAGGCTCTCTATGTGGACTCTTTATTTTCTTAGAGGCCGCTGGATCAGTTGCTCAGGCACGTGATGAA
CCCCTTGGAACCCCTCTCAATAACTAAGTCCCGGCTTTCGGAAGGGGATGTGATGCATCTGTCCAGAGTCCCAG
CGTCAGTCAGCTAAGTGCTCTGAGTCTAAGTGGGGTCATGCTGACCGATGTAAGTCCCGAGCCCCCTCCAAGCTCT
GCTGGAGAGAGCCTCTGCCACCTCCAGGACCTGGTCTTTGATGAGTGTGGGATCACGGATGATCAGCTCCTTGC
CCTCCTGCCTTCCCTGAGCCACTGCTCCCAGCTTACAACCTTAAGCTTCTACGGGAATTCCATCTCCATATCTGC
CTTGCAGAGTCTCCTGCAGCACCTCATCGGGCTGAGCAATCTGACCCACGTGCTGTATCCTGTCCCCCTGGAGAG
TTATGAGGACATCCATGGTACCCTCCACCTGGAGAGGCTTGCCCTATCTGCATGCCAGGCTCAGGGAGTTGCTGTG
TGAGTTGGGGCGGCCAGCATGGTCTGGCTTAGTGCCAACCCCTGTCCCTCACTGTGGGGACAGAACCTTCTATGA
CCCGGAGCCCATCCTGTGCCCTGTTTCATGCCTAACTAGCTGGGTGCACATATCAAATGCTTCATTCTGCATAC
TTGGACACTAAAGCCAGGATGTGCATGCATCTTGAAGCAACAAAGCAGCCACAGTTTCAGACAAATGTTTCAGTGT
GAGTGAGGAAAACATGTTTCAGTGAGGAAAAAACATTAGACAAATGTTTCAGTGAGGAAAAAAGGGGAAGTTGGG
GATAGGCAGATGTTGACTTGAGGAGTTAATGTGATCTTTGGGGAGATACATCTTATAGAGTTAGAAATAGAATCT
GAATTTCTAAAGGGAGATTCTGGCTTGGGAAGTACATGTAGGAGTTAATCCCTGTGTAGACTGTTGTAAAGAAAC
TGTTGAAAATAAAGAGAAGCAATGTGAAGCAAAAAAAAAAAAAAAAAA

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FIGURE 5976

MERRRLWGSIQSRYISMSVWTSPPRLVELAGQSLLKDEALAIAALELLPRELFPPLFMAAFDGRHSQTLKAMVQA
WPFTCLPLGVLMKGQHLHLETFKAVLDGLDVLLAQEVPRRWKLQVLDLRKNSHQDFWTVWSGNRASLYSFPEPE
AAQPMTKKRKVDGLSTEAEQFFIPVEVLVDLFLKEGACDELFSLIEKVKRKKNVLRCLCKKLKIFAMPMDIKM
ILKMVQLDSIEDLEVCTWKLPTLAKFSPYLGQMINLRRLLSHIHASSYISPEKEEQYIAQFTSQFLSLQCLQA
LYVDSLFFLRGRLDQLLRHVMNPLETLSITNCRLSEGDVMHLSQSPSVSQLSVLSLSGVMLTDVSPEPLQALLER
ASATLQDLVFDECGITDDQLLALLPSLSHCSQLTTLSFYGNSSISALQSLLOHLIGLSNLTHVLYPVPLESYED
IHGTLHLERLAYLHARLRELLCELGRPSMVWLSANPCPHCGDRTFYDPEPILCPCFMPN

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FIGURE 5977

AACGCCAGCGCCTGCGCACTGAGGGCGGCCTGGTCGTCGTCGCGGCGGCGGCGGCGGCTGAGGAGCCCGGCTGA
GGCGCCAGTACCCGGGCCCGGTCCGCATTTTCGCTTCCGGCTTCGGTTTCCCTCGGCCCAGCACGCCCCGGCCCCG
CCCCAGCCCTCCTGATCCCTCGCAGCCCGGCTCCGGCCCGCCGCTCTGCCGCGCAATGATGATGATGGCGCTG
AGCAAGACCTTCGGGCAGAAGCCCGTGAAGTTCCAGCTGGAGGACGACGGCGAGTTCTACATGATCGGCTCCGAG
GTGGGAAACTACCTCCGTATGTTCCGAGGTTCTCTGTACAAGAGATACCCCTCACTCTGGAGGCGACTAGCCACT
GTGGAAGAGAGGAAGAAAATAGTTGCATCGTCACATGATCACGGATACACGACTCTAGCCACCACTGTGACCCCTG
TTAAAAGCCTCGGAAGTGGAAGAGATTCTGGATGGCAACGATGAGAAGTACAAGGCTGTGTCCATCAGCACAGAG
CCCCCACCTACCTCAGGGAACAGAAGGCCAAGAGGAACAGCCAGTGGGTACCCACCCTGCCAACAGCTCCAC
CACTTAGATGCCGTGCCATGCTCCACAACCATCAACAGGAACCGCATGGGCGGAGACAAGAAGAGAACCTTCCCC
CTTTGGTGTGGATGCATCGCTGCACTCACCCCTCCGTGCTGATTCCGCCTTAGTTCTCCACTTTGATGACCATGAC
CCAGCTGTGATCCATGAGAACGCATCTCAGCCCGAGGTGCTGGTCCCCATCCGGCTGGACATGGAGATCGATGGG
CAGAAGCTGCGAGACGCCTTACCTGGAACATGAATGAGAAGTTGATGACGCCTGAGATGTTTTAGAAATCCTC
TGTGACGATCTGGATTGTAACCCGCTGACGTTTGTGCCAGCCATCGCCTCTGCCATCAGACAGCAGATCGAGTCC
TACCCACGGACAGCATCCTGGAGGACCAGTCAGACCAGCGCGTCATCATCAAGCTGAACATCCATGTGGGAAAC
ATTTCCCTGGTGGACCACTTTGAGTGGGACATGTCAGAGAAGGAGAACTCACCAGAGAAGTTTGCCCTGAAGCTG
TGCTCGGAGCTGGGGTTGGGCGGGGAGTTTGTACACCACCATCGCATACAGCATCCGGGGACAGCTGAGCTGGCAT
CAGAAGACCTACGCCTTCAGCGAGAACCCTCTGCCCACAGTGGAGATTGCCATCCGGAACACGGGCGATGCGGAC
CAGTGGTGCCCACTGCTGGAGACTCTGACAGACGCTGAGATGGAGAAGAAGATCCGCGACCAGGACAGGAACACG
AGGCGGATGAGGCGTCTTGCCAACACGGCCCCGGCCTGGTAAACAGCCCATCAGCACACGGCTCCCACGGAGCAT
CTCAGAAGATTGGGCCGCCTCTCCTCCATCTTCTGGCAAGGACAGAGGCGAGGGGACAGCCCAGCGCCATCCTGA
GGATCGGGTGGGGTGGAGTGGGGGCTTCCAGGTGGCCCTTCCGGGCACACATTCCATTGTTGAGCCCCAGTCC
TGCCCCCACCCACCCCTCCCTACCCCTCCCCAGTCTCTGGGGTCAGGAAGAAACCTTATTTTAGGTTGTGTTTT
GTTTTGTATAGGAGCCCCAGGCAGGGCTAGTAACAGTTTTTAAATAAAAGGCAACAGGTCATGTTCAATTTCTT
C

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FIGURE 5978

MMMALSKTFGQKPVKFQLEDDGEFYMGSEVGNLYLRMFRGSLYKRYPSLWRRLATVEERKKIVASSHDHGYTTL
ATSVTLLKASEVEEILDGNDEKYKAVSISTEPPTYLREQKAKRNSQWVPTLPNSSHHLDVPCSTTINRNRMGDRD
KKRTFPLWCGCIAALTTLRADSAVLHFDHDPVAVIHENASQPEVLVPIRLDMEIDGQKLRDAFTWNMNEKLMTP
MFSEILCDDLNLPLTFVPAIASAIRQQIESYPTDSILEDQSDQRVIIKLNHVGNIISLVDQFEWDMSEKENSPE
KFALKLCSELGLGGEFVTTIAYSIRGQLSWHQKTYAFSENPLPTVEIAIRNTGDADQWCPLLETLTDAEMEKKIR
DQDRNTRRMRLANTAPAW

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FIGURE 5979

ACCACAGTGGTGTCCGAGAAGTCAGGCACGTAGCTCAGCGGCGGCCGCGGCGCGTGCGTCTGTGCCTCTGCGCGG
GTCTCCTGGTCCTTCTGCCATC**ATG**CCGATGTTTCATCGTAAACACCAACGTGCCCCGCGCCTCCGTGCCGGACGG
GTTCTCTCCGAGCTCAGCCAGCAGCTGGCGCAGGCCACCGGCAAGCCCCCAGTACATCGCGGTGCACGTGGT
CCCGGACCAGCTCATGGCCTTCGGCGGGCTCCAGCGAGCCGTGCGCGCTCTGCAGCCTGCACAGCATCGGCAAGAT
CGGCGGCGCGCAGAACCGCTCCTACAGCAAGCTGCTGTGCGGCCTGCTGGCCGAGCGCCTGCGCATCAGCCCGGA
CAGGGTCTACATCAACTATTACGACATGAACGCGGCCAATGTGGGCTGGAACAACTCCACCTTCGCC**TAAG**AGCC
GCAGGGACCCACGCTGTCTGCGCTGGCTCCACCCGGGAACCCGCCGCACGCTGTGTTCTAGGCCCGCCACCCCA
ACCTTCTGGTGGGGAGAAATAAACGGTTTAGAGACT

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FIGURE 5980

MPMFIVNTNVPRASVPDGF LSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSIGKIGGAQNRS
YSKLLCGLLAERLRISPDRVYINYDMNAANVGWNNSTFA

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FIGURE 5981A

TTGGGCGAGAGGGTGGGGCCACTCAACGCTGAGGCGGCGAATGGCCGGAGCAGACTTAAATCAAGAGGCTGGGGA
CCTCTAAGATCAAAGTTTGGGGCGGGGCGCTAAGGAGGGGGCGGGGCGCTCCAGATTTCGAGACCTGGAAGGGCTGGG
GCGGCGCTTGGGGCGGGCCAGCCGCCGCTCCCGTTCTCTCTCCGCGAGCGGGCGGGTGGCGGAGAAGGAACTC
GACACGCACCGACCGCCCTCCCGCCCCAGCCGAAGCGGAAGCTGTAGCCCGCTCTGGGCCGGGGCCATGGGCGCC
CCGCGCCCGGGGTCTATGAGGACGGAGGCGGAGGCAGCGGGGCCCGCTCGAGCCCGGGGACTTTGTGCAACT
GCCTGTGCCCCGTATCCAGCAGCTCTACCACTGGGACTGTGGCCTGGCCTGCTCCAGGATGGTGTGCTGCAGGTACC
TGGGCCAGCTGGACGACAGTGAGTTTGAGAGAGCCCTGCAGAACTGCAGCTGACCAGGAGCATCTGGACCATCG
ACCTGGCCTACCTGATGCACCACTTTGGCGTGAGGCACCGCTTCTGTACCCAGACCCTGGGTGTGACAAGGGCT
ACAAGAACCAGTCTTCTACAGGAAGCACTTTGACACAGAAGAGACCCGGGTGAATCAGCTGTTTGCACAAGCAA
AGGCCTGCAAGGTGCTGGTGGAGAAATGCACAGTGAGTGTGAAGGACATCCAGGCGCACCTGGCTCAGGGCCATG
TGGCCATCGTGTGGTGAATCGGGGTGCTGCACTGTGACCTGTGCTCCAGCCCTGTCAAGTACTGCTGCTTCA
CCCCAGTGGCCACCACTGCTTCTGCGGCACTCTGACTACCAGGGCCACTTCATCGTGTGCTGCGTGGCTACAACC
GGGCCACTGGCTGCATCTTCTACAACAACCCAGCCTATGCCGACCCAGGAATGTGCAGCACCAGCATCAGTAACT
TTGAGGAGGCCAGAACCAGCTATGGCACAGATGAGGACATCTCTTTGTCTACTTGGACAGCTGACAGCAGGAGC
CTGGTGGCCTAGGCCCTCGGACCCCATCCCCACCCAGCCGGGCGCGCTCAGGATGCCCTGGCCCAGGCTTGGG
GCTGCTGGGGTTGGAATGTGGAAGTGCAGCCTCAGCCCATCTGGCAGAGTCCAGGAACCTCGGAGACTGGCACAG
CTGCTTTGTCTGCCAGTGCCGTGTGTTGTCTATGTCACTCACCACAAGCACCTGCTGGCTGTGGAAGCATACCCC
AAGACCCCAAGCCTTGACTCCAGCTGCGCCACAGGAAGTCCAGTCCCGACAGTGCCCTTGTTGCCTTTGAGCCA
GATCCATGGCAATGGTCTCCCCACAGACCGCAGGACTGAGCCTGGAGAGAGAAGTTGCTTGACGGATGCCACTTG
TCAGGACAGTATGTGAGTGTCTGGAGACAGCATAGCTGACCCCAATCCCCAGGGCTGAGGACCCCTCCAGGCC
CTCTCTCTGGAAGTGTGTCATATGCCCTGTGCCAGTGGTTGATGATACCAACCACCTGCCTACCCATGGG
CCCAAGTTTCTGTGGCTCATTACAGGGCATCTGACCCTGCCACCCAGCATAGACACACCTCACAGCTGCCCTGC
CATGCAGAGCCCTGGCCGCTGGAGACTCTTAAAGCCCCACAGCCCTCCAGGTCTCCAGCTCTGTCTAGATGGAG
GGCTCTCGGGCCTAGATCCCACTGGTAGGCCTCGTGCTGGCAGCAGTGCTCTGGGAATAAACAGCTGCCCTAGC
CCCAGAGGATCCCTGCACCCAGGAGGCCTCTGACACAGCCAAAATCCTGACAGCAGGGTCTGCCCTCTTGAG
TGTGGGGAGCCCTAGTCTTTAAGGTTGGCTGTCTAAGGCCTGTGCTCCAAAGCAACGGGCTGGGGCAGCCTGCA
GCTGCCACCCACCACTGGTCTTACACAGATGTCACAGGATCTGGGTCTTGCTATCTTGATGGAGAAGAGGG
GTTCTGCCCAGGATCTTACAACACAGCAAGTAGCATAGAGTCTTTCTCTCTTTTGGGGAGGTTGGGGT
CAGGGGTTGTTTCTTTGAGATTTAAGTTTTTCATTTTTGAGGGGTAATCACCTTCAAGTAAACAGTAATAGCAAG
AGTGAAGGTACTTTGGAACCACTAACACCTCTGCACAGGGCAGTTAGCCAGCTCAAGTTCTTTTTTCAGAGAAAGG
GACTTGGCCAGTGGTTTTAAGTACCTGCCCTTACCTCTCAGACGAGGCAGCTGACGAGGCAGCTGGCCAGTCT
TGGGAGTCTGCTCAGGACAGTGGTGGAGCTGGGTCTTGAACCCAGTCTGCACCTAAAAAATAAGGAAATGGA
TTTTTTTTTTTTTTTTTGGAGACGGAGACTCACTCTGTTGCCAGACTGGAGTGCAGTGGCACGATCTTGGCTTAC
TACAACCTCCGCTCCTGGGTTCAAGCGATCCTCTGCCTCAGCCCCCACTAGCTGGGACTACAGGCACATGCC
ACCATGCCCGGCTAATTTTTTTGTATTTTTAGTAGAGACCAGGCTTCGCCATGTTGGCCAGGCTGGTCTCGAACC
CCTGAGCTCAGGTGATCCACCTGCCTCGGCCCTCCAAAGTGGGAAATGGGTCATTTTCAAAGGGGCAACAGTGAT
ACCATCCCTGCACTCCTGGGTCTGCTCTTCCAATGCCCAAGGCATGGCATGGTGGCAGCTGTGCCCCGCCAT
TGCTTTGGAGCACAGATGACTCTGGGGGAGAGGTGGGCTCTGTTTAGGAGGGCAGTGAGACCCAGCCAAAT
TGCTTCTCAACCCTAGACAAAGCCTTTGGCCAAGAGGGAGGTGCTGTTAGTTGGGCAGCCCTTCTGGGTTTCA
GACCGGTGTTGGCTCTAGACTGGTCTCATCTCCATTGCCCTTAATGCCAGGTGGCCAGGAGTACCATGCACAGC
AGCTGTGGGGTGTGGGCATCTTCAAGTGGTGTCTGGTAAATTTGTTAGAATAGCTGTATGAAGGAAACAGTGG
GAGGAAATGAAGTTTTTCAAGATGGTGGGATGTGATTTAGACAGTGACATGCTGTTAGGGCTGTCACTAGGGAGT
GGCCTTCATGGAGGGTGGTAACAGCACCTCAGTCCAGCCAAAATGTTTAGAAACACTCAGTCTCTGGTCCCAGAG
GATGGCTTCTCAGGGCATGCCACAAGTTAAAGGTACCTTCTGAAAGATGAATGAGAAAGCTGCCATTCTCAA
GACTCATCTGCCTAGGGAGGGTACAGAGGCAGGATGTAAGACACACTGTGTTGCATTCTTGACAAGTCATGAA
AATGGAGCCAGAGAGCCTGGACATCAGGGACTTTTGCCACAGCACATGACACGACAGCTGCCAGCCTGTTCA
CATGCTGGGGACCAGCACAGCACCTGAAGCCATGTGGGACAGTTGGGCTTTGTTCACTAGCCACGGGGATGAA
AGGGATCTTTTGCATTGCAGAGATTTTATATATATTTTGTGTTGTAATGAGCCATTCTCAATAAACATTATTCTCA

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FIGURE 5981B

CTGC

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FIGURE 5982

MHHFGVRHRFCTQTLGVDKGYKNQSFYRKHFDTEETRVNQLFAQAKACKVLVEKCTVSVKDIQAHLAQGHVAIVL
VNSGVLHCDLCSSPVKYCCFTPSGHHCFCTPDYQGHFIVLRGYNRATGCIFYNNPAYADPGMCSTISISNFEEAR
TSYGTDEDILFVYLD S

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FIGURE 5983

TCTTGA CTCACGCCTTCGCCGTAGCATCTTTTCGCAGCGGACCGAAGAGAAGAAAAGTAGGCCAGAGCCGAAC TCT
CTTCCTGCCAAGATGCTCTATTGGTGTGCCGATTAAAGTACTGCATGAGGCCGAGGGCCACATTGTGACATGTGAG
ACGAACACCGGTGAGGTATATCGGGGGGAAGCTCATTGAAGCAGAGGACAACATGAACTGCCAGATGTCCAACATC
ACAGTCACATACAGAGATGGCCGAGTGGCACAGCTGGAGCAGGTATACATCCGTGGCAGCAAAATCCGCTTTCTG
ATTTTGCCTGACATGCTGAAGAACGCACCCATGTTAAAGAGCATGAAAAATAAAAACCAAGGCTCAGGGGCTGGC
CGAGGAAAAGCTGCCATTCTCAAGGCCCAAGTGGCCGCAAGAGGAAGAGGACGTGGAATGGGACGTGGAAACATC
TTTCAAAAGCGAAGATAATTTTCTAAGTTGAACAGAACTTTGTCCTTTTTTCTTTTCAGGTTATCTGAGTTCATTG
GAGTGGGTGCTTGTGCATATATCTAGGTATCTTTTGCCATCTTTCTCTTTAGATCAGGGGAAATGTTTAAGCTAA
ATAAATCTGGGGGGTTTTTTGTTCTG

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FIGURE 5984

MSIGVPIKVLHEAEGHIVTCETNTGEVYRGKLEAEDNMNCQMSNITVTYRDGRVAQLEQVYIRGSKIRFLILPD
MLKNAPMLKSMKNKNQGSGAGRGKAAILKAQVAARGRGRGMGRGNIFQKRR

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FIGURE 5985

CATTGCAGTACACTGAGCTCCACAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTGTGCC
TCGCTGAGGAAAAATAACTAAACATGAGCAAAGGAGATCCTAAGAAGCTGAGAGGCAAAATGTCATCACATGCAT
TTTTTGGGCAAACTTGTCGGGAGGCGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACCTCTCAGAGTTTTCTA
AGAAGTGCCCATACGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCAAGGAT
CCGAATGCACCCAAGAGGACTCCTTCGGCCTTCTTCCTGTTCTGCTCTGCGTATCGCCCAAAATCAAAGGAGAA
CATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCCGCAGATGACAAG
CAGCCTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGA
AAGCCTGATGCAGCAAAAAGGGAGTTGTCAAGGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAG
GAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAGAAGATGATGAATAAGTTGGTTCTAGC
GCAGTTTTTTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAATTG
AAATGTAAGGCTGTGTAAGATTTGTTTTAAACTGTACAGTGTCTTTTTTGTATAGTTAACACACTACCGAATG
TGTCTTTAGATAGCCCTGTCCTGATGGTATTTTCAATAGCCGCTAACCTTGCCTGGTACAGTATGGGGGCTGTAA
ATTGGCATGGAAATTTAAAGCGGGTTCTTGTGGTGCACAGCACAAATTAGTTATATATGGGGATGATAGTTTTT
TCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTATTCTGTAACTGAATACCACTCTGTAATTGCAA
AAAGAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTAG

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FIGURE 5986

ATGGGTGCATACAAGTACATCCTGGAGCTATGGAGAAAGAAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTC
CGCTGCTGGCAGTACCGCCAGCTATCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAAAGTGCACCGA
CTGGGCTACAAACAAGGCCAAGCAAGTGACAGTGAGTCGTGTGGACCTGGTAAAATCACCAACTTCTCTGATTCT
CCTTATCTTGAAAACAGGGATGATAATGCTCCCCCTACCCACAGATGCTGTGACGTTCCAAGCAGACATCTAA

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FIGURE 5987

GGCGCTGGGCGGCTGCGGCGCGCGGTGCGCGGTGCGTAGTCTGGAGCTATCGTGGTGGTGGCAGCCGCGCCGAAC
CCGGCCGACGGGACCCCTAAAGTTCTGCTTCTGTCGGGGCAGCCCGCTCCGCCGCGGAGCCCCGGCCGGCCAG
GCCCTGCCGCTCATGGTGCCAGCCCAGAGAGGGGCCAGCCCGGAGGCAGCGAGCGGGGGGCTGCCCCAGGCGCGC
AAGCGACAGCGCCTCACGCACCTGAGCCCCGAGGAGAAGGCGCTGAGGAGGAAACTGAAAAACAGAGTAGCAGCT
CAGACTGCCAGAGATCGAAAGAAGGCTCGAATGAGTGAGCTGGAACAGCAAGTGGTAGATTTAGAAGAAGAGAAC
CAAAAACTTTTGCTAGAAAATCAGCTTTTACGAGAGAAAACCTCATGGCCTTGTTAGTTGAGAACCAGGAGTTAAGA
CAGCGCTTGGGGATGGATGCCCTGGTTGCTGAAGAGGAGGCGGAAGCCAAGGGGAATGAAGTGAGGCCAGTGGCC
GGGTCTGCTGAGTCCGCAGCACTCAGACTACGTGCACCTCTGCAGCAGGTGCAGGCCAGTTGTACCCCTCCAG
AACATCTCCCCATGGATTCTGGCGGTATTGACTCTTCAGATTGAGTCTGATATCCTGTTGGGCATTCTGGACA
ACTTGGACCCAGTCATGTTCTTCAAATGCCCTTCCCCAGAGCCTGCCAGCCTGGAGGAGCTCCCAGAGGTCTACC
CAGAAGGACCCAGTTCCCTTACCAGCCTCCCTTTCTCTGTGAGTGGGGACGTATCAGCCAAGCTGGAAGCCATTA
ATGAACTAATTCGTTTTGACCACATATATACCAAGCCCCTAGTCTTAGAGATACCCTCTGAGACAGAGAGCCAAG
CTAATGTGGTAGTGAAAATCGAGGAAGCACCTCTCAGCCCCCTCAGAGAATGATCACCTGAATTCATTGTCTCAG
TGAAGGAAGAACCCTGTAGAAGATGACCTCGTTCCGGAGCTGGGTATCTCAAATCTGCTTTCATCCAGCCACTGCC
CAAAGCCATCTTCCCTGCCTACTGGATGCTTACAGTGACTGTGGATACGGGGGTTCCCTTTCCCCATTGAGTGACA
TGTCCTCTCTGCTTGGTGTAACCATTTCTGGGAGGACACTTTTGCCAATGAACTCTTTCCCCAGCTGATTAGTG
TCTAAGGAATGATCCAATACTGTTGCCCTTTTCTTACTATTACACTGCCTGGAGGATAGCAGAGAAGCCTGTC
TGTAATTCATTCAAAAAGCCAAAATAGAGAGTATACAGTCCTAGAGAATTCCTCTATTGTTGAGATCTCATAGA
TGACCCCCAGGTATTGTCTTTTGACATCCAGCAGTCCAAGGTATTGAGACATATTACTGGAAGTAAGAAATATTA
CTATAATTGAGAACTACAGCTTTTAAGATTGTACTTTATCTTAAAAGGGTGGTAGTTTTCCCTAAAATACCTTAT
TATGTAAGGGTCATTAGACAAATGTCTTGAAGTAGACATGGAATTTATGAATGGTTCTTTATCATTTCTCTTCCC
CCTTTTGGCATCCTGGCTTGCCCTCCAGTTTTAGGTCTTTAGTTTGCTTCTGTAAGCAACGGGAACACCTGCTG
AGGGGGCTCTTTCCCTCATGTATACTTCAAGTAAGATCAAGAATCTTTGTGAAATTATAGAAATTTACTATGTA
AATGCTTGATGGAATTTTTTCCCTGCTAGTGTAGCTTCTGAAAGGTGCTTTCTCCATTTATTTAAACTACCCATG
CAATTAAAAGGTACAATGCAAAAAAAAAAAAAAAAAA

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FIGURE 5988

MVVVAAAPNPADGTPKVLLLSGQPASAAGAPAGQALPLMVPAQRGASPEAASGGLPQARKRQRLTHLSPEEKALR
RKLKNRVAAQTARDRKKARMSELEQQVVDLEEENQKLLENQLLREKTHGLVVENQELRQRLGMDALVAEEEEAEA
KGNEVRPVAGSAESAALRLRAPLQQVQAQLSEPLQNI SPWILAVLTLQIQSLISCWAFWTTWTQSCSSNALPQSLP
AWRSSQRSTQKDPVPYQPPFLCQWGRHQPSWKPLMN

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FIGURE 5989

AGAGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGCGCTCCACGGATTACAGTACCTATAGCCA
AGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATA
TGGGCAACAAAGCTATGGAACCTATGGACAGCCCACTGATGTCAGCTATACCCAGGCTCAGACCACTGCAACCTA
TGGGCAGACCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAAGTCCCCCCCAGGCATA
CAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACTGCTACAGTACCACTACCCAGGCCTC
CTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACTGCACC
TACAAGACCGCAGGATGGAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACAGCC
CAGCCTAGGATATGGACAGAGTAACCTACAGTTATCCCCAGGTACCTGGGAGCTACCCCATGCAGCCAGTCACTGC
ACCTCCATCCTACCCTCCTACCAGCTATTCTCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAGCA
GAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCAGCC
TCCCACTAGTTACCCACCCCAAAGTGGATCCTACAGCCAAGTCCAAGTCAATATAGCCAACAGAGCAGCAGCTA
CGGGCAGCAGAGTTTATTCCGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTC
CGGACCAGGAGAGAACCGGAGCATGAGTGGCCCTGATAACCGGGGCAGGGGAAGAGGGGGATTGATCGTGGAGG
CATGAGCAGAGGTGGGCGGGGAGGAGGACGCGGTGGAATGGGCAGCGCTGGAGAGCGAGGTGGCTTCAATAAGCC
TGGTGGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCTCCTGTAGATCCAGATGAAGACTCTGACAACAG
TGCAATTTATGTACAAGGATTAATGACAGTGTGACTCTAGATGATCTGGCAGACTTCTTTAAGCAGTGTGGGGT
TGTTAAGATGAACAAGAGAACTGGGCAACCCATGATCCACATCTACCTGGACAAGGAAACAGGAAAGCCCAAAGG
CGATGCCACAGTGTCTTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGTTTGATGGGAAAGATTTTCA
AGGGAGCAAACCTTAAAGTCTCCCTTGCTCGGAAGAAGCCTCCAATGAACAGTATGCGGGGTGGTCTGCCACCCCG
TGAGGGCAGAGGCATGCCACCACCCTCCGTGGAGGTCCAGGAGGCCAGGAGGTCTGGGGGACCCATGGGTGCG
CATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGTTCCTGAGGGAACCCCTCTGG
AGGAGGAAACGTCCAGCACCAGCTGGAGACTGGCAGTGTCCCAATCCGGGTGTGGAAACAGAACTTCGCCTG
GAGAACAGAGTGCAACCAAGTGTAAAGGCCCAAAGCCTGAAGGCTTCCCTCCGCCACCCCTTCCGCCCCCGGGTGG
TGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCTCATGGATCGTGGTGGTCCCGGTGG
AATGTTTCAAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGCATGGACCGAGGTGGCTTTGG
TGGAGGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGGAGGAAGAAGAGGAGGACG
TGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGGCCCTACTAGATGCAGAGACC
CCGCAGAGCTGCATTGACTACCAGATTTATTTTTTAAACCAGAAAATGTTTTAAATTTATAATTCCATATTTATA
ATGTTGGCCACAACATTATGATTATTCCTTGCTGTACTTTAGTATTTTACCATTTGTGAAGAAACATTAAAA
CAAGTTAAATGGTAGTGTGCGGAGTTTTTTTTTCTTCTTCTTTTAAAAATGGTTGTTTAAAGACTTTAACAATGG
GAACCCCTTGTGAGCATGCTCAGTATCATTGTGGAGAACCAAGAGGGCCTCTTAACTGTAACAATGTTTCATGGTT
GTGATGTTTTTTTTTTTTTTTTTAAATAAAATTCCAAATGTTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5990

MASTDYSTYSQAAAQQGYSAYTAQPTQGYAQTQAYGQQSYGTYGQPTDVSYTQAQTTATYGQTAYATSYGQPPT
GYTTPTAPQAYSQPVQGYGTGAYDTTATVTTTQASYAAQSAYGTQPAYPAYGQQPAATAPTRPDGKNKPTETSQ
PQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVTAAPPSPPTSYSSSTQPTSYDQSSYSQQNTYQPPSSYGQQSS
YGQQSSYGQQPPTSYPPQTGSYSQAPSQYSQQSSSYGQQSSFRQDHPSSMGVYGQESGGFSGPGENRSMSPDNR
GRGRGGFDRGGMSRGGRRGGGRGGMGSAGERGGFNKPGGPMDEGPDLDLGPPVDPDESDNSAIYVQGLNDSVTLD
DLADFFKQCGVVKMNKRTGQPMIHIYLDKETGKPKGDATVSYEDPPTAKAAVEWFDGKDFQGSKLKVS LARKKPP
MNSMRGGLPPREGRGMPPPLRGGPGGPGGPGGPMGRMGGRGGDRGGFPFRGPRGSRGNP SGGGNVQHRAGDWQCP
NPGCGNQNFARTECNQCKAPKPEGFLPPFPFPPGGDRGRGGPGGMRGGRGGLMDRGGPGGMFRGGRRGGDRGGFR
GGRGMDRGGFGGRRGGPGGPPGPLMEQMGGRRGGRRGGPGKMDKGEHRQERRDRPY

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FIGURE 5991

GGACGCATAGAGCTGCGGCTCGGGCGGGCGCTCCCTGCGGGCGGCCCGGCCCGGCTCCGGCCCCGCTGGGGCAAT
GCTCCCCGGGGCCGCGGGATGAGCCAGCGATCCTGAACTGTGTTCTGCCCACAGTGACTCGGCGGGTCCGGGCA
TGGCAGACCCAGTGGCGGGCATCGCGGGTTTCGGCGGGCAAGAGCGTGCGGCCATTTTCGCTCCAGTGAGGCCTACG
TGGAGGCCATGAAGGAGGACCTGGCCGAGTGGCTCAATGCCTTGTACGGCCTGGGTCTCCCGGGTGGTGGCGATG
GCTTCCTGACAGGGCTGGCCACGGGCACGACCCTGTGCCAACATGCCAACGCCGTGACCGAGGGCTGCCCCGTGCAT
TGGCAGCCGCCCGCCCGGCCGAGGTGTGGCCTTCAGGCGCACAGTGTAGTGCTGGCTCCTTCATGGCGCGCG
ACAACTGTGGCCACCTTCATCGGCTGGTGCCGCGTGAGCTGGGTGTGCCGGAGGTGCTCATGTTTGAGACTGAGG
ACCTGGTGCTGCGCAAGAACGAGAAGAGCGTGGTGCTGTGCCTGCTGGAGGTGGCGCGGGCTGGGGCACGCCTGG
GCCTGCTGGCCCCACGCCTCGTGAGTTTTGAGCAGGAGATTGAGCGGGAGCTGCGTGCTGCACCCCCAGCCCCA
ACGCCCCTGCCGCTGGGGAGGACACCACTGAAACCGCCCCCGCACCAGGGACTCCTGCCCCGCGGCCCCCGCATGA
CACCCAGCGACCTGCGCAACCTCGACGAGCTGGTGAGGGAGATTCTGGGCCGCTGCACCTGCCCTGACCAGTTTC
CCATGATCAAGGTCTCAGAGGGGAAGTACCGTGTGGGGGACTCGAGCCTGCTCATCTTTGTGCGGGTGCTGAGGA
GCCACGTGATGGTGCGAGTGGGTGGTGGCTGGGACACGCTGGAGCATTACCTGGACAAGCACGACCCGTGCCGCT
GCTCCTCCACTGCTCATCGCCACCCAGCCGAGGGTCTGCACCTTTTCTCCACAGAGGGTGTCGCCCCACCACCA
GTCCCCGCCCTGCTAGCCAGTCCCTGGGAGTGAGCGCGGGGGCTCCCGGCCTGAGATGACTCCCGTTAGCTTAC
GAAGCACAAAGGAGGGGGCCGAGACCCACCCAGGCCCCGGGATCAGCTGCCCCCCCATCCCCGTCCCGCCGCT
ACTCCGGGGACAGTGACTCCTCAGCCTCCTCCGCCCAGAGCGGCCCCCTTGGTACCCGCACTGATGACACAGGCA
CTGGCCCCCGGAGGGAGCGACCCAGCCGGCGGCTGACCACAGGCACCCCGGCCTCTCCGAGACGGCCTCCTGCCC
TGCGCAGCCAGTCCCGAGACCGGCTGGATCGCGGGCGGCCCGGGGGGCCAGGAGGCAGGGGAGCCAGCTGT
CGGTCCCCAGCCCTGCCCCGGCGGGGCCGAGCCAGAGCCGCGAGGAGCAGGCTGTGCTGCTTGTGCGCAGGGATC
GAGACGGGCAGCACTCATGGGTGCCAAGGGGCAGGGGCAGTGGGGGCTCGGGCAGGAGCACCCCCAGACTCCCC
GTGCCCGCAGCCCTGCAGCACCCCGGCTTTCCCGGGTCTCCAGCCCCAGTCCAGAGTTGGGCACCACACCGGCCA
GCATCTTCCGCACACCCCTGCAGCTCGACCCGCAGCAGGAGCAGCAGCTGTTCCGGCGCCTGGAAGAGGAGTTCC
TGGCCAATGCCCCGGGCCCTTGAGGCTGTTGCTAGCGTGACCCCACTGGACCAGCCCTGACCCAGCTCGGGCCC
CCGACCCTCCAGCTCCTGACTCTGCCTATTGTTCTCCAGTTCTCCTCTTCGTCCCTCAGCGTCTTGGGTGGCA
AATGTGGCCAACCTGGGGACTCTGGCCGGACGGCCAATGGGCTGCCTGGGCCCCGAAGCCAAGCCCTTTCAGCT
CCTCCGATGAAGGCAGCCCTGCCCTGGCATGGGGGGGCCACTAGATGCACCTGGGAGCCCCCTGGCTTGCACTG
AACCCTCGAGGACCTGGGCACGGGGTCGGATGGACACACAGCCAGACCGTAAACCCTCACGTATCCCCACGCCTC
GGGGCCCCCGCCGCCCTCCGGACCCGCAAGCTGGGGACATGGCATGCCCTGCACTCAGTCACCCCGAGGGCTG
AGCCAGATTCTGGATGTGATGGACCAGCTCAGCTGTCCCAGACCCCATCCCTTCTCCTTTTCTTTGTGGCCT
TAACCCTTCTGCATCAGGGAGCCCCCTCTGCCTCTTGAGTACCAGACCTCATGGGACCAGACCCCTTGGGACCAC
ATGGCACAAATGGGACCTCTGTTGTACATTCCGGTTGGGGATGAGCGTTGCTATTTAATTACTAATATTATTGAA
TGCCCTTAGAGGAGGCCGGGCGAGCCGGTGTCTGAAGACCTGTGGCCAGCAGAGCCTCTGACAGTAAAGTTTT
GCTCCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5992

MADPVAGIAGSAAKSVRPFRSSEAYVEAMKEDLAEWLNALYGLGLPGGGDGFLTGLATGTTLCQHANA VTEAARA
LAAARPARGVAFQAHSVVPGSFMARDNVATFIGWCRVELGVPEVLMFETEDLVLRKNEKSVVLCLEVARRGARL
GLLAPRLVQFEQEIERELRAAPPAPNAPAAGEDTTETAPAPGTPARGPRMTPSDLRNLDELVREILGRCTCPDQF
PMIKVSEGKYRVGDSSLLIFVRVLRSHVMVRVGGGWDITLEHYLDKHDP CRCSSTAHRPPQPRVCTFSPQRVSP TT
SPRPASPVPGSERRGSRPEMTPVSLRSTKEGPETPPRPRDQLPPHPRSRRYSGDSDSSASSAQSGPLGTRSDDTG
TGPRRERPSRRLTTGTPASPRRPPALRSQSRDRLDRGRPRGAPGGRGALSVSPARRARSQSREEQAVLLVRRD
RDGQHSWVPRGRGSGGSGRSTPQTPRARSPAAPRLSRVSSPSPELGTTPASIFRTPLQLDPQQEQQLFRRLEEEF
LANARALEAVASVTPTGPAPDPAAPDPPAPDSAYCSSSSSSSSLSVLGGKCGQPGDSGRTANGLPGPRSQALSS
SSDEGSPCPGMGGPLDAPGSP LACTEPSRTWARGRMDTQPDRKPSRIPTPRGPRRPSGPAELGTWHALHSVTPRA
EPDSWM

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FIGURE 5993A

ACCACTTGAAGAGAGGTTCTTAATACTAGACAGATGGAGAGTGGCTTGGCTGTTTCCCCCTGCATATTGGGGTTG
AAAACTTAAATGTGTAGTTCAGTCTTCTATGCAGAGTCTCTCCTGCCCTCCCTCCTTCCCTGCAGTCTCACCAC
GCCACCACCTCCCTCGGGGGCCTCCGCGCTGAGCTTCCGGCCTCTACGCCTCGCTTCCGGTCCGCCGCCCTTCC
TTACTTCCGGTTCTCTATGGTGCGCGGGCAAGCTTTGCTCCGCCTCCGGCAGTGGCTTACTCCCGGTGCCAGGTT
CTTGGAGCTGTGAGGAGGAACAACCATGTCTATCAGAATCGAGCAAAAAACGGAAGCCCAAGTGATCCGAAGCGA
TGGAGCCCCAGCTGAAGGAAAGCGGAATCGATCTGACACCGAGCAGGAAGGTAAATACTACAGTGAGGAGGCCGA
GGTGGATCTGCGGGACCTGGCAGAGACTATGAGTTATACAAGTACACCTGCCAGGAGCTACAGAGGCTGATGGC
TGAGATCCAAGACCTGAAGAGCAGGGGTGGCAAGGATGTGGCAATAGAAATAGAAGAACGGAGGATCCAGAGCTG
TGTGCATTTCATGACTCTAAAGAAGCTTAACCGATTAGCCCATCAGGTTGAAGAAAGGAAGAGATCAGACCCA
CGAGGCTAAGCAGAAAGTAGATGCCTATCATCTGCAGCTCCAGAACCTGTTGTATGAGGTGATGCACCTACAGAA
GGAGATCACCAATGTTTGGAGTTTAAGTCAAAGCATGAAGAAATTGATCTGGTCAGTTTAGAGGAGTTTTATAA
GGAGGCTCCACCAGATATCAGCAAGGCCGAAGTCACCATGGGAGACCCTCACCAGCAAACTGGCACGTCTGGA
CTGGGAGCTGGAGCAGCGGAAAAGGCTGGCAGAGAAGTACCGAGAGTGCCTATCTAACAAGGAGAAGATTCTCAA
GGAGATTGAGGTGAAGAAGGAGTACCTGAGCAGCCTCCAGCCCCGCCTCAACAGCATCATGCAGGCTTCCCTTCC
GGTGCAGGAGTACCTGTTTATGCCATTGACCAGGCTCACAAGCAGTATGAGACAGCCAGACACCTGCCGCCTCC
CCTCTATGTCTCTTTGTTTCAAGGCCACTGCGTATGGGCAGGCTGTGATAAGACGTTATCTGTGGCAATCGAAGG
CAGTGTGGATGAAGCCAAGGCTCTGTTCAAACCTCCAGAGGACTCCCAAGATGACGAGAGTGACTCAGATGCCGA
GGAGGAGCAGACTACGAAGCGCCGAGACCCACACTGGGGGTTTCAAGTGGACGACAAACGCAAGGAGATGCTGAA
GAGGCACCCACTGTCTGTCTATGCTCGACCTGAAGTGCAAAGATGACAGTGTGCTTACCTGACTTTCTACTACCT
CATGAACCTCAACATCATGACAGTAAAAGCCAAAGTGACAACCTGCCATGGAGCTGATCACCCTCATCAGTGCAGG
TGACTTGCTGTCTCTGACTCAGTCTGAGTTGCTTGTATCTCTGGGGATCATGGAAGAAAACCTCCGAATCCAGC
CAATCAGTATCAGTTTGATAAAGTTGGCATCTGACTTTGAGCGACTATGTACTTGAGCTAGGTACCCCTATTT
GTGGGTGCAGAAAGCTGGGTGGCTCCACTTCCCCAAAGAGCAGCCCCAGCAAAACAGTGATTGCTGACCACTCGCT
GAGCGCCAGCCACATGGAGACCACCATGAACTTCTGAAGACCAGGGTGCAGTCCCGCCTGGCCCTCCACAACA
GTTTGCATCCCTAGAACATGGCATTGTGCCAGTTACCAAGTATGAGGAGTGCAGTGCAGTTCACCAAGAGTTGTGCTC
TCGCCTGGTGAAATGGGTGACAGTTGCCCATGAGGATTACATGGAGCTGCAGTTCACCAAGAGCTTGTGAGTGC
GGGACTGGCTGGGGGACCAATCTCTACTACATGGCGCTCATCGAAAGGGGCACAGCCAAAGCTCAGGCGCTGT
GGTGTGAACCTGGCTACTCCTCCATCCACCTGTTTCCAGCTCTGTTGAAGTGGAAAGGGGAGAAAACCAA
CAGCAACGATGACAACATTGCGGCCATGGAGGGCGAAGTCAATGTGTGCTACAAGGAGCTGTGTGGCCCTTGCC
CAGCCACCAGCTGTTGACCAACCAGCTGCAGCGCTGTGTGTGCTGCTGGATGTTTACCTGGAGACCGAGAGCCA
TGACGACAGTGTGGAGGGGGCCCAAGGAATTTCCCCAGGAGAAGATGTGTCTGCGGCTCTTCAGGGGTCTTAGCAG
GATGAAGCCATTTAAATACAACCATCTCAGGGATTCTTCAGCCATCGCTGATCTCCCGCGCAGACCGTTGTTTC
CCCCAAGGCCTCACCTGAGCACTGGGCTTCTGCTTCTGCTCTGGCCCATGTGACTCTTGATATTCTCCAAA
GACACCAGCCAATTAAGAGCGTCACCTGACCAGTGGCCTTTGTCTGTGGTTCTGGCAAGGTGGCTTTGCAGTC
TGGAAGGGCAGGTGGGAGCTGTGACACAGTGTGAAAAAGCATTGTAGAGAGACTTTTTCTCAGCAGCCAATAAA
AGCAGAGTGGAAAAAGATTCCAATTCTGCAGAGAGATGCTCACCTCTGTCTACGCACACCCCTATTTGTGCTTTG
CGGGGTGAGGTCTCATGATCTTGTATTTATTATCCCAAGTTCTGTGTTAAGAGGTGGTAGGAGAAGCCAAAG
GCAGCAGAGCACAAAAGCAAACTCTTCCCTCCCCACCGCTCTTCCCATAGTCTGTGAGGTTGCCGATGG
ACAAATTGTCTCTGATCGTTGGATGTTATAAATGTCTGACAGTGCAGTGCAACAGAAAGACAACTCAGTTGATC
CTTGAACAACTCAGGGGTAGGGGCACCAACACCCCTGCCCTGCACAGTTGAAAAATCCGTGTATAACTTTTGA
CTCCCTAAAACTTAATAATAGCCTGTGTTGACCAGTAGTATGCTATTAGTAGTTACTTACTGCTAACATAGT
CAGTACATATTTTCAGTATATATTTGTATCTTATACACTGTATTCTTACAATACAGTAACTAGAGAAAAGAAA
ATGTTATAAGGAAAGTCACAAGGGGGCCTGAGTGCAGTGGCTCACGTCTGTAATCCAGCACTTTGGGAGGCCAA
GGCGGGTGGATCACTTGAGGTGAGGAGTTTGAGACCAGCCTGGCCGACATGGTGAAACCTGTCTCTACTAAAAA
CATGGAATTAGCCAAGCGTGGTGGCGCATGCCTGTAGTCCCAGTTACTCAGGAGGCTGAGGCAGAATTACTTGA
ACCCATGAGGCAGAGGTTGCAGTAAGCCAAGATCACGCTCCTGCGCTCCGGCTTGGGCGAGAGTGAGACTCCGTC
TCAAAAATAAATAAATAAGAAAGCCATAAGGAAGAAAAATATATCTACTATTAAGTAGAAGTGATCACCATAA
AGGTCTTCACATACTGTCTCAGGGTTGAATAGTCTAAGGAAGAGAGGGGTTGGTCTTGGTGTCTCAGGGATGGC

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FIGURE 5993B

AGAGGCAGAAAAAGTGGGGGAGGTGGAGGGGGAGGCAGGCACCACTGTTATTTTTATTGAACAAAATCTGTGCAG
GGACTCATGACTGTAATCCTAGTACTTTGGAAAGCTAAGGCGGGAGGATCCCTTGAGGCCAGGAGTTCAGGTCCA
GCCTGGGCAACGTAGTGAGAGACCCTGTATCTACAAAAAATTTAAAAATCAGCCAGGTGTGGTGGTATGCACCAA
TAGTCCCAGTTACTCAGAAGGCTGAGGTGGGCGGATGACTGGAGTCCAGGAGTTCAAGGTAGCAGTGAGCTATTC
ATCGTGCCTGTACTGTACTCCAGCCTGGGAAACAATGCGAGTCCCTATCTCTAAAAAATTTTAAAAAAGAAATC
TGCAATAAATAGACCCACAGAGTCCAAACTATTGTTTCAGAGATCAACTGTACTTCACAGAGAGTAATTCTAAGTC
TTACAGGATTTTCATGGAGATGGCGAGAGTGGTGTGGGAGAATCAATCACATACAGAGATACAGGACAGTGAGACC
AGGTAACATTTGAGGAGAATATTTTTTTTTTATTGAGACAGGGTCTTGCTCTGTTGTCCAGGCTGGAGTGCAGTG
GCACGAACACAGCTCACTGCCGCCTCAACCTCTCCTGGGTTCAAGTGATCCTCCTGCCTCAGCCTCCCAAGTAGC
TGGGACCACAGGTGTGTGCCACCATTCTGGCTAATTTTTAAATTTTTTGTAGAGGCGGGATCCCACTATTTTTTC
CCAGGCTGGTCTCAAACCTCCTGGGCTCAAATGATCCTCCACCTCGGCCTCCCAAAGTGCTAGGATTATAGGCAT
GAGCCACCACACCCGGCCTGAGTAGAGTCTTTAAGGTAATGACAAAAGTGCCCTCAAAATATAATTATTTGATTAA
GAGAAGTCTTGGAAGATAGGTAACAACCTTTAAATGTTCAAAAATTACATCCTTTGTAATACTCCTGCAAGT
CAAAGTAAAGGATGGCATAGACTATTCTTGGACAGTTTTGTCAAAAAGTGATCTTGACCCCAACATCAGTACTC
CATTCTTCATTTTAAAAAATAAGATGGGCTGGGCACAGTGGCTTACGCCTTTAATATCAGTACTTTGGGAGGCTG
GTGGGCGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAT
ACAAAAATTAGCTGGGCATGGTGGTGCGCGCCTGTAATCCCAGCCACTCGGGAGGCTGAGGCAGGAGAATTGCTT
GAATCCCCGAGGCGGAGGTTGCACTGAGCCGAGATGGTGCCACTGCACCATCTGGACAACAGAGCAAGACTCCGT
CTTGG

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FIGURE 5994

ACGGCAGCCGTCAGGGACCGTCCCCCAACTCCCCTTTCCGCTCAGGCAGGGTCTCGCGGCCCATGCTGGCCGCT
GGGGACCCGCGCAGCCCAGACCGTTCCCGGGCCGGCCAGCCGGCACCATGGTGGCCCTGAGGCCTGTGCAGCAAC
TCCAGGGGGGCTAAAGGGCTCAGAGTGCAGGCCGTGGGGCGCAGGGGTCCCGGGCCTGAGCCCCGCGCC**ATGGCC**
GGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCGTGAGGATCGTC
ACCATGGACGCCGAGATGGAGTTCATTGCGAGATGAAGTGGAAAGGGAAGGACCTCTTTGATTTGGTGTGCCGG
ACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGACACAGTGGCCTGGCTCAAAATG
GACAAGAAGGTACTGGATCATGATGTTTCAAAGGAAGAACCAGTCACCTTTCACTTCTTGGCCAAATTTTATCCT
GAGAATGCTGAAGAGGAGCTGGTTCAAGGATCACACAACATTTATTCTTCTTACAGGTAAAGAAGCAGATTTTA
GATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTCCTGGCTTCTTACGCCGTCCAGGCCAAGTATGGTGAC
TACGACCCCACTGTTTACAAGCGGGGATTTTTGGCCCAAGAGGAATTGCTTCCAAAAGGGTAATAAATCTGTAT
CAGATGACTCCGGAAATGTGGGAGGAGAGAATTACTGCTTGGTACGCAGAGCACCAGGCGGAGCCAGGGATGAA
GCTGAAATGGAATATCTGAAGATAGCTCAGGACCTGGAGATGTACGGTGTGAACTACTTTGCAATCCGGAATAAA
AAGGGCACAGAGCTGCTGCTTGGAGTGGATGCCCTGGGGCTTCACATTTATGACCTGAGAACAGACTGACCCCC
AAGATCTCCTTCCCGTGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAAACCACTGGAT
AAGAAAATTGATGTCTTCAAGTTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCTATGTATCGGG
AACCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGAG
GAGAAGGCTAGAAAGCAGATGGAGCGGCAGCGCCTCGCTCGAGAGAAGCAGATGAGGGAGGAGGCTGAACGCACG
AGGGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAATGGCCAACGAAGCACTGATGCGGTCT
GAGGAGACAGCTGACCTGTTGGCTGAAAAGGCCCAGATCACCAGGAGGAGGCAAACTTCTGGCCCAAGAGGCC
GCAGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAGCGATTTCGCACGGAGGAGGAGAAGCGCCTGATGGAG
CAGAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAAGATGGCTGAGGAGTCAGAGAGGAGGGCCAAAGAGGCAGAT
CAGCTGAAGCAGGACCTGCAGGAAGCACGCGAGGCGGAGCGAAGAGCCAAAGCAGAAGCTCCTGGAGATTGCCACC
AAGCCACGTACCCGCCCATGAACCCAAATTCCAGCACCGTTGCCTCCTGACATACCAAGCTTCAACCTCATTGGT
GACAGCCTGTCTTTTCGACTTCAAAGATACTGACATGAAGCGGCTTTCCATGGAGATAGAGAAAGAAAAAGTGGAA
TACATGGAAAAGAGCAAGCATCTGCAGGAGCAGCTCAATGAACTCAAGACAGAAATCGAGGCCTTGAACTGAAA
GAGAGGGAGACAGCTCTGGATATTCTGCACAATGAGAATCCGACAGGGGTGGCAGCAGCAAGCACAATACCATT
AAAAAGCTCACCTTGAGAGCGCCAAGTCCCGAGTGGCTTCTTTGAAGAGCTCT**TAG**CAGGTGACCCAGCCACCC
CAGGACCTGCCACTTCTCCTGCTACCGGGACCGCGGGATGGACCAGATATCAAGAGAGCCATCCATAGGGAGCTG
GCTGGGGGTTTTCCGTGGGAGCTCCAGAATTTCCCCAGCTGAGTGAAGAGCCAGCCCCCTCTTATGTGCAATTGC
CTTGAAGTACGACCTGTAGAGATTTCTCTCATGGCGTTCTAGTTCTCTGACCTGAGTCTTTGTTTTAAGAAGTA
TTTGTCT

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FIGURE 5995

MAGAIASRMSFSSLKRKQPKTF TVRIVTMDAEMEFNCEMKWKGDLDLVCRTLGLRETWFFGLQYTIKDTVAVL
KMDKKVLDHDSKEEPVTFHF LAKFY PENAEELVQEITQHLFF LQVKKQILDEKIYCPPEASVLLASYAVQAKY
GDYDPSVHKRGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYLKIAQDLEMYGVNYFAIR
NKKGTELLLGVDALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKIDVFKFNSSKLRVKNLILQLC
IGNHDLFMRRRKADSLEVQQMKAQAREEKARKQMERQRLAREKQMREEAERTRDELERLLQMKEEATMANEALM
RSEETADLLAEKAQITEEEAKLLAQKAAEAEQEMQRIKATAIRTEEEKRLMEQKVLEAEVLALKMAEESERRAKE
ADQLKQDLQEAREAEERRAKQLLEIATKPTYPPMNP IPAPLPDIPSFNLIGDSLSDFKD TDMKRLSMEIEKEK
VEYMEKSKHLQEQLNELKTEIEALKKERETALDILHNENSDRGSSKHNTIKKLTLSAKSRVAFFEEL

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GGACACGAGGCCGGAAGTGCGGCGCTCAGGGAGCTGTCAACCGTGGTCGGCGCGCGCGCGCGGCACAG
AGCCGGTGGTGGAGCCGCCGAGGAGGGTACGCAGCACAAATGCCAGCTCTGCCCTGGACCAACTCCAGATCACC
CACAAGGACCCGAAGACAGGAAAGCTGAGGACTTCACCAGCGCTGCACCCCGAGCAGAAGGCAGACCGGTATTTT
GTGTTATACAAACGCCCCCTAAAGACAACATTCCCGCCCTAGTGGAGGAGTACCTGGAACGCGCCACCTTCGTA
GCCAATGACCTCGACTGGCTCCTGGCCTTGCCCTCACGATAAAATTCTGGTGCCAGGTGATCTTTGACGAGACTCTA
CAGAAGTGCCCTGGACTCCTACCTGCGCTATGTCCCCCGCAAATTCGACGAGGGGGTGGCCTCAGCCCCTGAGGTT
GTTGACATGCAGAAGCGCCTCCATCGAAGTGTTTTCTCACCTTCCTCCGCATGTCCACTCACAAGGAATCCAA
GATCACATTATTTCCCTTCTGCGTTTGGAGAAATCCTCTACAATAACTTCCTCTTTGACATTCCAAAGATCCTG
GACCTCTGCGTGCTCTTTGGAAAAGGCAACTCACCCTGCTCCAGAAGATGATAGGAAACATCTTTACACAGCAG
CCAAGTTACTACAGTGACCTGGATGAAACCTGCTACCCTCCTTCAGGTCTTCAGCAATATCCTCCAGCACTGT
GGTTTGCAAGGGGACGGGGCCAATACCACACCCCGAAGCTTGAGGAGAGGGGGCCGATTGACCCCCAGTGACATG
CCTCTCCTGGAATTAAGGACATTGTTCTCTACCTTTGTGATACCTGCACCACACTTTGGGCCCTTTCTGGATATC
TTCCCTTTGGCTTGCCAGACCTTCCAGAAGCACGACTTTTGTACAGACTAGCTTCCTTCTACGAAGCAGCAATT
CCCGAAATGGAGTCTGCAATTAAGAAGAGGAGGCTTGAAGATAGCAAGCTTCTTGGTGACCTGTGGCAGAGGCTC
TCCCATTCAGGAAGAAGCTAATGGAGATTTTCCACATCATCCTGAACCAGATCTGCCTCCTTCCCATCCTAGAA
AGCAGCTGTGACAACATTAGGGCTTCATCGAAGAGTTCTTCAGATCTTCAGCTCCTTGCTGCAGGAGAAGAGG
TTCTCCGGGACTATGATGCATCTTCCCGTGGCCGAAGACATCAGCTTGCTGCAGCAGGCCCTCATCAGTCTTG
GACGAGACGCGGACTGCCTACATCCTCCAGGCAGTCGAGAGTGATGGGAAGGGGTGGACAGACGGAAAGCCACA
GATGCTAAAGACCCATCGGTGATTGAGGAGCCTAATGGGGAGCCTAACGGGGTCACGGTGACAGCAGAGGCAGTC
AGTCAAGCATCATCACATCCGGAAGCTCGGAGGAAGAGGAGTGATGGGAGCAGCCGCGGCTGTGGGCCCTGCC
ATGTGTGGGGTGGAACTGGACTCTCTCATCTCCCAAGTGAAGGACCTGCTGCCAGACCTTGGTGAGGGCTTCATC
CTGGCCTGCCTGGAGTACTACCACTACGACCCAGAGCAGGTGATCAACAATATCCTGGAGGAGCGGCTGGCCCC
ACCCTCAGCCAGCTGGACCGCAACCCTAGACAGAGAAATGAAACCAGACCCCTACACCCCTGCTGACGCTCTGCCAC
AACGCTCTTCAGAATGACGAGTTTGATGTGTTTACGACAGGGACTCAGTAGACCTGAGCCGGGTGCACAAGGGCAAG
AGCACCAGGAAGGAGGAAAACACGCGGAGTTTGCTGAACGACAAGCGTGAGTGGCGGCACAGCGGCAGCGCTAC
GAGCAGTACAGCGTGGTGGTGGAGGAGGTGCCACTGCAGCCAGGCGAGAGCCTGCCCTACCACAGTGTCTACTAC
GAGGATGAGTACGATGACACATACGATGGCAACCAGGTGGGCGCCAATGATGCAGACTCTGATGACGAGCTCATC
AGCCGCAGGCCATTACCATCCCTCAGGTGCTGAGAACCAGTGCCTAGAGAAGGGCAGGAGGAGGATGACGAC
GATGAGGAAGACGATGCTGACGAGGAGGCTCCCAAGCCCGACCATTTTGTTCAGGACCTGAGTGTGAGAGAG
AAGGCAGAAGCCAGGCGCATGGCCTTTCTCGCCAAGAAAGGGTACCGGCATGACAGCTCAACAGCAGTGGCCGGC
AGCCCCGAGGCCATGGGCAGAGCCGCGAGACAACCCAGGAACGCAGGAAGAAGGAAGCCAAACAAGGCAGACAAG
GCCAACCAACACCGGAGAACCATGGCCGACCGCAAGAGGAGCAAAGGCATGATCCCATCTCTGAGACCTGGTGCAG
GGCCAGTGGGGAGGCAGCGGACCCAGACTCACCAGGCCGTGCTCCCATCGCCTGGGGCTTCCTACTAGGGGCC
CAAGTTCAACTCAACCCCTCAACAGCCTCAGCTTTGCAGCCCTGAGAAGGCCGCTCTCATCTACCAGCCAGCC
ATGAGCGCCTTCTGCGAGAACACACAGTGCCCTTATGCCACAGCCGAAGAATCCGTGGGGCCGCAAGCAGGCACC
TTCCCCCAGCTGCGCTAGCGGGAAGAGATGGGGATGGAGTCCCAAGGCAAGCGCCCAACCTCGGGCCACAAG
ACACCCTTCCCTTTACCCTGGACAGCAGGAAACCTGTATATTCAAAAACACAAAAAGTCTGCTAATAAAAT
TTTGACCTTTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5997

MPALPLDQLQITHKDPKTGKLRTSPALHPEQKADRYFVLYKPPPKDNIPALVEEYLERATFVANDLDWLLALPHD
KFWCQVIFDETLQKCLDSYLRVPRKFDEGVASAPEVDMQKRLHRSVFLTF LRMSTHKESKDHFI SP SAFGEIL
YNNFLFDIPKILDLCVLF GK GNSPLLQKMIGNIFTQQPSYSDLD ETLPTILQVFSN ILQHCGLGQDGANTTPQK
LEERGRLTPSDMPLLELKDIVLYLCDTCTTLWAFLDIFPLACQTFQKHDFCYRLASFYEA AIPEMESA IKKRRL E
DSKLLGDLWQRLSHSRKKLMEIFHI ILNQICLLPILESSCDNIQGFIEEFLQIFSSLLQEKRF LRDYDALFPVAE
DISLLQQASSVLDETRTAYILQAVESAWEGVDRRKATDAKDP SVIEEPNGEPNGVTVTAEAVSQASSHPENSEEE
ECMGAAA AVGPAMCGVELDSLISQVKDLLPD LGEGFILACLEYYHYDPEQVINNILEERLAP TLSQLDRNLDREM
KPDPTPLLTSRHN VFQNDEFDVF SRDSVDLSRVHKGKSTRKEENTRS LLNDKRAVAAQRQRYEQYSVVVEEVPLQ
PGESLPYHSVYYE DEYDDTYDGNQVGANDADSDDELISRPF TIPQVLRTKVPREGQEEDDDDEEDDADEEAPKP
DHFVQDPAVLREKAEARRMAFLAKKGYRHDSSTAVAGSPRGHGQSRETTQERRKKEANKATRANHNRRTMADRKR
SKGMIPS

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FIGURE 5998

ATGGCTTGGGGAGTCAGTGCCAAATGGAGTAACGAGGGCATCACAAAGTGTGGGTGACCCACAGTGGGAATGCCAG
AGTTGGAGCCTGAGCAGGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTTCAGTATAATAACTATGGGAAAG
ACACTCATCGCCAGGACTCAAGGAATCAAAATTGCATCTGATGGCCTCAAGGGTCATGTGTTTGAAGTCTGCCAA
ATCCAGAAGAAGATGATGGAAATCATGACCCAAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTG
ATTCCAGACAGCACTGGAAAAGACATAGAAAAGGCTTGCCTATCTGTTTATCCTCTCCATGGTGTCTTCATTAGG
AAAGTAAAAATAAAGAAGCCCAAGTTTGAATTGGGAAAACATCATGTAG

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FIGURE 5999

GGCACGAGGCCGCAACTCGCTCGGCCGCCGCCATCTTGCGAGCTCGTCGTA CTGACCGAGCGGGGAGGCTGTCTT
GAGGCGGCACCGCTCACCACACCGAGGCGGACTGGCAGCCCTGAGCGTCGCAGTCAATGCCGGCCGGACCCGCTGC
AGGCGGTGCCCCCGCCGCCGCCGCTGCCACGGAGCCCAAACAGCCACAGAAAGAAGCATCTTCAAAGGAGG
ATTCTGCACCTTCTAAGCCAGTTGTGGGGATTATTTACCCCTCCTCCAGAGGTCAGAAATATTGTTGACAAGACTG
CCAGCTTTGTGGCCAGAAACGGGCCTGAATTTGAAGCTAGGA⁷CCGACAGAACGAGATCAACAACCCCAAGTTCA
ACTTTCTGAACCCCAATGACCCTTACCATGCCTACTACCGCCACAAGGTCAGCGAGTTCAAGGAAGGGAAGGCTC
AGGAGCCGTCGCCGCCATCCCCAAGGTCATGCAGCAGCAGCAGCAGACCACCCAGCAGCAGCTGCCCCAGAAGG
TCCAAGCCCAAGTAATCCAAGAGACCATCGTGCCCAAAGAGCCTCCTCCTGAGTTTGAGTTTCATTGCTGATCCTC
CCTCTATCTCAGCCTTCGACTTGGATGTGGTGAAGCTGACGGCTCAGTTTGTGGCCAGGAATGGGCGCCAGTTTC
TGACCCAGCTGATGCAGAAAGAGCAGCGCAACTACCAGTTTGACTTTCTCCGCCACAGCACAGCCTCTTCAACT
ACTTCACGAAGCTAGTGGAACAGTACACCAAGATCTTGATTCCACCCAAAGGTTTATTTTCAAAGCTCAAGAAAG
AGGCTGAAAACCCCGAGAAGTTTGGATCAGGTGTGTTACCGAGTGGAATGGGCCAAATTCCAGGAACGTGAGA
GGAAGAAGGAAGAAGAGGAGAAGGAGAAGGAGCGGGTGGCCTATGCTCAGATCGACTGGCATGATTTTGTGGTGG
TGGAACAGTGGACTTCCAACCCAAATGAGCAAGGGAACTTCCCTCCCCCACCACGCCAGAGGAGCTGGGGGCC
GAATCCTCATTCAGGAGCGCTATGAAAAGTTTGGGGAGAGTGAGGAAGTTGAGATGGAGGTGAGTCTGATGAGG
AGGATGACAAACAGGAGAAGGCGGAGGAGCCTCCTTCCAGCTGGACCAGGACACCCAAGTACAAGATATGGATG
AGGGTTGAGATGATGAAGAAGAAGGGCAGAAAGTGCCCCACCCCCAGAGACACCCATGCCTCCACCTCTGCCCC
CAACTCCAGACCAAGTCATTGTCCGCAAGGATTATGATCCCAAAGCCTCCAAGCCCTTGCCCTCCAGCCCCCTGCTC
CAGATGAGTATCTTGTGTCCCCATTACTGGGGAGAAGATCCCCGCCAGCAAAATGCAGGAACACATGCGCATTG
GACTTCTTGACCCTCGCTGGCTGGAGCAGCGGATCGCTCCATCCGTGAGAAGCAGAGCGATGATGAGGTGTACG
CACCAGGTCTGGATATTGAGAGCAGCTTGAAGCAGTTGGCTGAGCGCGTACTGACATCTTCGGTGTAGAGGAAA
CAGCCATTGGTAAGAAGATCGGTGAGGAGGAGATCCAGAAGCCAGAGGAAAAGGTGACCTGGGATGGCCACTCAG
GCAGCATGGCCCGGACCCAGCAGGCTGCCAGGCCAACATCACCTCCAGGAGCAGATTGAGGCCATTACAAGG
CCAAAGGCTGGTGCCAGAGGATGACACTAAAGAGAAGATTGGCCCCAGCAAGCCCAATGAAATCCCTCAACAGC
CACCGCCACCATCTTCAGCCACCAACATCCCCAGCTCGGCTCCACCCATCACTTCAGTGCCCCGACCACCCACAA
TGCCACCTCCAGTTTCGTACTACAGTTGTCTCCGCAGTACCCGTCA TGCCCCGGCCCCCAATGGCATCTGTGGTCC
GGCTGCCCCCAGGCTCAGTGATCGCCCCCATGCCGCCATCATCCACGCGCCAGAAATCAACGTGGTGGCCATGC
CTCCCTCGGCCCCCTCCTATTATGGCCCCCGCCACCCCCATGATTGTGCCAACAGCCTTTGTGCCTGCTCCAC
CTGTGGCACCTGTCCCAGCTCCAGCCCCAATGCCCCCTGTGCATCCCCACCTCCCATGGAAGATGAGCCACCT
CCAAAAAAGTGAAGACAGAGGACAGCCTCATGCCAGAGGAGGAGTTCTCTGCGCAGAAACAAGGGTCCAGTGTCCA
TCAAAGTCCAGGTGCCCAACATGCAGGATAAGACGGAATGGAAACTGAATGGGCAGGTGCTGGTCTTACCCTCC
CACTCACGGACCAGGTCTCTGTCAATTAAGGTGAAGATTTCATGAAGCCACAGGCATGCCTGCAGGGAACAGAAGC
TACAGTATGAGGGTATCTTCATCAAAGATTCCAACCTCACTGGCTTACTACAACATGGCCAATGGCGCAGTCATCC
ACCTGGCCCTCAAGGAGAGAGGCGGGAGGAAGAAGTACACAAGAGGAACCTGCTGTCAAGTCCCTGCCATTTTGC
CTCTCCTGTCTCCACCCCTGCCCCAGACCCAGGAGCCCCCTGAGGCTTTGCCTTGCTGCATATTTGTTTCG
CTCTTACTCAGTTTGGGAATTCAAATTGTCTGCAGAGGTTTATTCCCCTGACCCTTTCCCCACATTGGTAAGAG
TAGCTGGGTTTTCTAAGCCACTCTCTGGAATCTCTTTGTGTTAGGGTCTCGATTTGAGGACATTCTTTCTTCAG
CAGCCATTAGCAACTGAGAGCCAGGGATGTCTACAGGATAGTTTCATAGTGACAGGTGGCACTTGGCTAATA
GAATATGGCTGATATTGTCAATTAATCATTTGTACCTTGACATGGGTTGTCTAATAAACTCGGACCCTTCTGT
GAAAAAAAAAAAAAAAAAAAA

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FIGURE 6000

MPAGPVQAVPPPPVPTEPKQPTTEEASSKEDSAPSKPVVGGIYPPPEVRNIVDKTASFVARNGPEFEARIRQNE
INNPKNFLNPNDPYHAYYRHKVSEFKEGKAQEPSAAIPKVMQQQQQTTOQQLPQKVQAQVIQETIVPKEPPPEF
EFIADPPSISAFDLDVVKLTAQFVARNGRQFLTQIMQKEQRNYQFDFLRPQHSLFNYFTKLVEQYTKILIPPKGL
FSKLLKEAENPREVLDQVCYRVEWAKFQERERKKEEEEKEKERVAYAQIDWHDFVVVETVDFQPNQGNFPPTT
PEELGARILIQERYEKFGESEEVEMEVESEDEDDKQEKAEPPSQLDQDTQVQDMDEGSDDDEEGQKVPPPPETP
MPPPLPPTPDQVIVRKDYDPKASKPLPPAPAPDEYLVSPITGEKIPASKMQEHMRIGLLDPRWLEQRDRSIREKQ
SDDEVYAPGLDIESSLKQLAERRTDIFGVEETAIGKKIGEEIQQPEEKVTWDGHSGSMARTQQAQANITLQEQ
IEAIHKAKGLVPEDDTKEKIGPSKPNEIPQQPPPPSSATNIPSSAPPITSVPRPPTMPPPVRTTVVSAVPVMPRP
PMASVVRLLPPGSVIAPMPPIIHAPRINVPMPPSAPPIMAPRPPPMIVPTAFVPAPPVAPVPAPAPMPPVHPPPP
MEDEPTSKKLKTEDSLMPEEEFLRRNKGPVSIKVQVPMQDKTEWKLNGQVLVFTLPLTDQVSVIKVKIHEATGM
PAGKQKLQYEGIFIKDSNSLAYNMANGAVIHLALKERGGRKK

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FIGURE 6001

ATGAGGTGGGCGAGGCTTTCCGCTCTCTTGTGCCAGCGGCGGGTGGTGTGGCTGAGCTATGGCGTGGCCAGCTCC
TACGTGCTGGCGGATGCCATTGACAAAGGCAAGAAGGCTGGAGAGGTGCCCAGCCCTGAAGCAGGCCGCGAGCGCC
AGGGTGACTGTGGCTGTGGTGGACACCTTTGTATGGCAGGCTCTAGCCTCTGTGGCCATTCCGGGCTTCACCATC
AACCGCGTGTGTGCTGCCTCTCTCTATGTCCTGGGCACTGCCACCCGCTGGCCCCCTGGCTGTCCGCAAGTGGACC
ACCACCGCGCTTGGGCTGTTGACCATCCCCATCATTATCCACCCCATTGACAGGTCGGTGGATTTCTCTCTGGAC
TCCAGCCTGCGCAAGTCTACCCAACAGTGGGGAAGCCCAGCTCCTCCTGATCATACTCTGGTACCTGGCCTGTGC
ATCGGCCTCCTGCTTCATGTCAACCTCCTACTCCTGCCAGGGAATGTGGACACCTGGCTCCCTGGTGTCCAAAGA
CCCTGGCACCTGGGTGGGTTTGAGCTGGACAGAAGCTTAGAGACAAAGGCTTCAAGAAGCAGTGGCTGCAGGGAG
TCACAGAAGGGCAGGACCTTGA

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FIGURE 6002

MRWARLSALLCQRRVVWLSYGVASSYVLADAIDKGGKAGEVPSPEAGRSARVTVAVVDTFVWQALASVAIPGFTI
NRVCAASLYVLGTATRWPLAVRKWTTTALGLLTIPIIIHPIDRSVDFLLDSSLRKSTQQWGSPAPPDHTLVPGLC
IGLLLHVNLLLLPGNVDTWLPQVQRPWHLGGFELDRSLETKASRSSGCRESQKGRT

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FIGURE 6003

CACGAGGAAGTGGAGCTGCCTGTACGCGCGGCCCTAGTCGGCTCCTCAACGTGGAGCGATGGGAGGCCTTGAGAA
GAAGAAGTATGAACGAGGCTCGGCCACCAACTACATCACCCGGAACAAAGCCCGGAAGAAGCTCCAGCTGAGCTT
GGCTGACTTTAGGCGGCTGTGCATTCTGAAGGGCATTATCCCCATGAACCCAAACACAAGAAGAAGGTAAACAA
GGGTTCTACAGCAGCCCGAACGTTTACCTTATCAAAGACATCAGGTTTCTCCTCCACGAACCCATTGTCAACAA
GTTCCGTGAATACAAGGTGTTTCGTCCGGAAGCTCCGGAAGGCTTATGGGAAGAGCGAGTGGAACACTGTAGAGCG
TTTAAAGGACAATAAGCCCAACTACAAACTCGACCACATCATCAAGGAACGGTATCCCACGTTTCATCGATGCCCT
GCGGGACCTGGACGATGCCCTCTCCATGTGCTTCTGTTTTCCACCTTCCCGCGGACTGGCAAGTGCCACGTGCA
GACCATTAGCTGTGCCGCCGGCTCACTGTGGAGTTCATGCACTACATTATCGCTGCCCGTGCCCTGCGCAAGGT
CTTCTGTCCATCAAAGGCATTTACTACCAGGCCGAGGTACTGGGGCAGCCCATCGTGTGGATCACTCCCTATGC
CTTCTCCCATGACCACCCGACAGAGCTGGACTACAGGGTCATGGCCACCTTCACCGAGTTCTACACCACGCTGCT
GGGCTTTGTCAACTTCCGCCCTTACCAGTTGCTCAACCTCCACTATCCCCGAAGCTCGAGGGTCAGGCCCAAGC
AGAGGCAAAGGCCGGTGAGGGCACCTACGCGTTGGAATCCGAGAGTTGTATGGAGAACTGGCAGCCCTCAGTGC
CAGCCTGGCCCCGCTGGTGGTGCTGCCACAGAGGAGGAGGCCGAGGTGGATGAGTTTCCACCGATGGGGAGAT
GTCAGCGCAGGAGGAAGACCGCAGGAAGGAGCTGGAGGCGCAGGAGAAGCACAAGAAGCTTTTTGAGGGCCTGAA
GTTCTTCTGAACCGAGAGGTGCCCCGTGAGGCCCTGGCCTTCATCATCAGGAGTTTGGTGGGGAAGTGTCTTG
GGACAAATCTTTGTGCATTGGGGCCACCTATGACGTCACAGACTCCCGCATCACCCATCAGATTGTCGACCGGCC
TGGGCAGCAGACCTCAGTCATTGGCAGGTGCTACGTGCAGCCCCAGTGGGTGTTTGACTCAGTGAACGCCAGGCT
CCTTCTCCCCGTGGCAGAGTACTTCTCTGGGGTGACGTGCCCCACACCTTTCACCTTTGTGACCGAGAAGGA
AGGAGATTACGTTCCACCTGAGAAGCTGAAGCTGCTGGCTCTGCAGCGGGGAGAGACCAGGAAACCTGAATGA
GTCAGAAGAGGAGGAGGAAGAGGACGACAACAACGAAGGTGATGGTGATGAAGAGGGAGAAAATGAGGAGGAGGA
GGAAGATGCAGAGGCTGGTTTCAGAAAAGGAGGAAGAGGCCCGGCTGGCAGCCCTGGAAGAGCAGAGGATGGAGGG
GAAGAAGCCCAGGGTGATGGCAGGCACCTTGAAGCTGGAGGATAAGCAGCGGCTGGCCAGGAGGAGGAGTGA
GGCCAAGCGCCTGGCCATTATGATGATGAAGAAGCGGGAGAAGTACCTGTACCAGAAGATCATGTTTGGCAAGAG
GCGAAAAATCCGAGAGGCCAACAAAGCTGGCGGAGAAGCGGAAAGCCACGATGAGGCGGTGAGGTCTGAGAAGAA
GGCCAAGAAGGCAAGGCCGGAGTGAGTGCTGCGGCCCTCACAGGGCTGAGGCCAGCCCCTAGCAGCTGGATGT
GGCAGAGGCAGGCCAGAGGACCTAAGTGTGATGGACCAGAGTCACTTCTCCTCCTCTTTCTCCAGCCAGCCCTG
ACCCCTCATGCTCTCTGGCTGGGCCAGTGGGCAGCCCTCGCTTCCCTTGGATGGAGCTGCCCTGCTGGTGCTGG
TCAGAGAAGAGGCCTCTGTGCCAGCCTGATTCTCTGCTCCCAGGAGCCAGTGACATGAGGTGCAGAGGCCACC
CAGCCCCCTACCTACTGCCCCATTCTCTGCTTTCACAGCCCCCTCCACACAGTTGGACCCGTGATTCTC
AGGGTGCTGTGATGGGGTGAGGGTAGGGGGAGCATTGTTATTAAATGACTGGACTTTTGAAAAAAAAAAAAA
AAAAAA

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FIGURE 6004

MGGLEKKKYERGSATNYITRNKARKKLQLSLADFRRLCILKGIYPHEPKHKKVKNKGSTAARTFYLIKDIRFLLH
EPIVKNKFREYKVFVRKLRKAYGKSEWNTVERLKDKNKPNYKLDHIIKERYPTFIDALRDLDALSMCFLFSTFPRT
GKCHVQTIQLCRRLTVEFMHYIIAARALRKVFLSIKGIYYQAEVLGQPIVWITPYAFSHDHPTDVDYRVMATFTE
FYTTLLGFVNFRLYQLNLHYPPKLEGQAQAEAKAGEGTALDSESCMEKLAALSASLARVVVPATEEEAEVDEF
PTDGEMSAQEEDRRKELEAQEKHKLFEGLKFFLNREVPREALAFIIRSFGGEVSWDKSLCIGATYDVTD SRITH
QIVDRPGQQT SVIGRCYVQPQWVFD SVNARLLL PVAEYFSGVQLP PHLSPFVTEKEGDYVPPEK LKLLALQRGED
PGNLNESEEEEEEDD NNEG DGDEEG ENEEEEE DAEAGSEKEEE EARLAAL EEQRM EGKKPRVMAGTLKLEDKQRLA
QEESEAKRLAIMMMKKREKYLYQKIMFGKRRKIREANKLAEKRKAHDEAVRSEKKAKKARPE

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FIGURE 6005A

CGAGACTCAGATTGTCTGAATTGAGCTATCGCAACTTAATGCTAAAAGCTCCTTAAAGCTACAGATTTATGACAT
AGTTCCTTCCAAAATATTACATCATAAATCATTGAGAAGATTAAAAAAAACACTTGAAGAAATTGTAGTTTTAA
ACATCTCTGCATATATTTTGGATAGCTACTAGGTTACTTTAACTGTCTATTAGGAGCACAGACTTACTGAAGCTT
TACTGGACAGAATCCTGGGAAATCGATATCATTATAAGGTTATATTTCCCAGTTAGCGGGTGAAGGGCTGGAGAC
CTTATTGCAGTCATGGCTTTCACAAATTACAGCAGTCTGAATCGAGCTCAGCTAACCTTTGAATATCTGCACACA
AATTTCGTAAGTATCCTCTAGGTGCCACTGAGGTAACCGTAACCTCGTTCCTTGATATTATATGGAATCGTTTCC
CCAGAAAATTTTGCTTTTTCACCTTTTGGAGATGTATCCCACTGGAGTGAAATGTGTCACTGGATATCTTGAGCTC
TGTATTGAAGAACTGAGATCAGTGAAATACTTGTGTGCTAATCCAGAAGAATCTGATTTTTGTTTTATTGGATCAAA
ATTTTCTAAATGCAAACCTTAGTTATTTGAAGTCAATATGTTGAGTTGTTTCATTCAAGTGTTTTATAGGAATCCA
ACAAATACTGCTCTATTGGATCGCCAAATGTTGGACTATTTTAGTATCAACCGTTTTCCCTCTGTAGTGACAACG
TCCTAAACAGTTAGGTTTATAACAAGTGTTTACTTTCTAAACAAGAAAACAGAAGACATTTAAATGACAACCTTTCA
AGAAGAAAATTTTTATTTTTTTCAGAAAGTTGGCATTATCTTCTCGCAGATTGCTCACATCCAATATTATTTGTAT
ATGCTAAACAGGAAACGGCAACTTGTTTATATCTCTATTTAGATAGTCTTTCCCCAAAATTTCCACAGAAACATA
CAGTGTTTCATGGTTCTTGAGTTCATGAAGGAGTAATCTAATCACTCCAACATGGTCTGGAATGTTTCAGGTTTAA
TCCATATGCCCACTCTCTTGGAGGCTGTCCAGTAGCGTCAAAACTTTAGTGTTTTAATACATTACCTGTTACTT
TTGAGATGAAGTTCACCTTTCTTGGATCACATGCAAAGGATGTTTAGGTCTGTGAAGAAAAGAATTTCTAGGCCG
GGTGCTGTGGCTCACGCCGTGAATCCCAGCACTTTGGGAGGCCGAGAACCCTCACGAATCTTGTGTTGGTGCTC
TTGCTGAAGTGGTTGATAATGCAAGAGATGCTGATGCCACCAGAATAGATATTTATGCAGAAAGACGAGAGGACC
TTCGAGGAGGATTTATGCTTTTGGATGATGGAGCAGGAATGGATCCAAGTGATGCTGCCAGTGTGATCC
AGTTTGGGAAGTCGGCCAAGCGAACACCTGAGTCTACTCAGATTGGGCAGTACGGGAATGGGTTAAAATCGGGCT
CAATGCGCATTGGGAAGGATTTATCCTGTTTACCAAGAAGGAAGACACCATGACGTGCCTCTTCTGTCTCGCA
CGTTTCATGAGGAAGAAGGCATTGATGAAGTGATAGTCCCCTGCCCACCTGGAATGCTCGGACCCGGGAACCTG
TCACAGACAATGTAGAGAAATTTGCCATTGAGACAGAACTCATCTATAAGTACTCTCCATTCCGCACTGAGGAGG
AAGTGATGACCCAGTTTATGAAGATTCCTGGGGACAGCGGAACATTGGTGATCATCTTCAATCTCAAACCTCAGTG
ATAATGGAGAGCCAGAACTAGACATAATCTCAAATCCAAGAGATATCCAGATGGCAGAGACGTCAGAGGGCA
CGAAGCCAGAGCGCGCTCGTTCCGTGCCTATGCCGCTGTGCTCTATATTGATCCCCGGATGAGGATCTTTCATCC
ATGGGCACAAGGTGAGACCAAGAGGCTCTCTGCTGCCTGTACAAGCCAGGATGTACAAGTACAGTCAAGCC
GTTTCAAGACCCGTGCGGAGCAGGAGGTGAAGAAAGCAGAGCAGTACGTAAGGATTGCTGAAGAGAAGGCGCGGG
AGGCAGAGAGCAAAGCTCGGACATTAGAAGTACGCCTAGGTGGAGACCTCACGCGGGACTCCAGGGTGATGTTGC
GACAGGTCCAGAACAGAGCCATCACTCTGCGCAGAGAAGCCGATGTCAAGAAGAGGATCAAGGAGGCCAAGCAGC
GAGCACTTAAAGAACCTAAGGAACCTGAATTTTTGTTTTTGGTGTCACACATTGAACACCGGGATCTGGATGGCATGT
TCATCTACAACCTGTAGCCGACTGATCAAAATGTATGAGAAAGTGGGCCACAGCTGGAAGGGGGCATGGCATGTG
GCGGGGTTGTTGGGGTTGTTGATGTGCCCTACCTGGTCTTGAGCCCTACACACAACAAACAGGACTTTGCTGATG
CCAAGGAGTACCGGCACCTGCTCCGAGCAATGGGGGAGCACCTGGCGCAGTATTGGAAGGATATTGCCATCGCCC
AGAGGGGAATCATCAAGTCTGCGGATGAGTTTGGCTACCTCTCTGCCAACTGGAACCAGCCCCCGTCCAGTGAGC
TGCGTTACAAACGCCGGAGAGCTATGGAAATCCCCACCACCATCCAGTGCGATTTGTGTCTGAAATGGAGAACCC
TCCCTTCCAGCTGAGTTCTGTGGAAAAAGATTACCTGACACCTGGGTTTGCTCCATGAACCTGATCTGTAAC
AGGACCGGTGTGAGGCTTCTGAACAAAAGCAGAAGGTTCCCTGGGAACATTGAGAAAGGACATGAAGACGCAGG
AAGAGAAGCAGAAACAACCTGACAGAGAAAATTCGCCAGCAGCAGGAGAAGCTGGAGGCCCTTCAGAAAACCACAC
CCATCCGCTCCCAAGCAGACCTGAAGAAATTGCCCTTGGAAAGTGACCACCAGACCTTCCACTGAGGAACCTGTGC
GTAGACCTCAGCGTCTCGGTGCGCCCCCTTTACCTGCTGTGATCAGGAACGCCCCCAGCAGACCCCCCTTCTTTGC
CAACTCCTAGACCAGCCAGCCAGCCCCGAAAGGCTCCTGTCTATCAGCAGTACCCCAAAGCTCCCTGCTTTGGCAG
CCCCGGGAGGAGGCCAGCACATCTAGGCTGCTCCAGCCACCTGAGGCACCCCGAAAGCCTGCCAACACTCTCGTCA
AGACTGCATCCCGACCTGCCCCCTCTGGTGCAGCAACTGTCACCATCTTTACTGCCCAACTCCAAGAGCCCTCGGG
AGGTTCTTCTCCCAAAGTCATCAAGACTCCAGTGGTGAAGAAGACAGAGTACCCATCAAACCTCTCCCCGGCTA
CCCCTAGTCGGAAGCGGAGTGTGCGAGTTTCTGATGAGGAAGAAGTTGAGGAGGAAGCTGAGAGGAGGAAGGAGA
GGTGCAAGCGGGGCAGATTTGTTGTGAAGGAGGAAAAGAAGGACTCGAATGAGCTCTCAGACAGTGTGGGGAAG
AGGACTCGGCTGACCTCAAGAGAGCTCAGAAAGATAAAGGGCTGCACGTGGAGGTGCGTGTGAACAGGGAGTGGT

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FIGURE 6005B

ACACGGGCGGTGTCACAGCCGTGGAGGTGGGCAAGCATGTGGTGCGGTGGAAGGTGAAGTTTGACTACGTGCCCA
CAGACACGACACCAAGAGACCGCTGGGTGGAGAAAGGCAGTGAGGATGTGCGGCTGATGAAACCCCTTCTCCGG
AACATCAGAGCCTTGATACACAACAGGAGGGCGGGGAGGAGGAGGTGGGCCCTGTGGCCCAGCAGGCCATAGCTG
TCGCAGAGCCCTCCACTTCCGAATGCCTCCGCATTGAGCCTGACACCACTGCCCTGAGCACCAATCACGAGACCA
TCGACCTGCTTGTCCAGATCCTCCGGAATTGTTTACGGTACTTCCTGCCTCCAAGTTTCCCCATCTCCAAGAAGC
AGCTGAGTGCTATGAATTCAGATGAGCTAATATCTTTTCTCTGAAGGAGTACTTCAAGCAATATGAAGTAGGGC
TCCAAAACCTGTGCAATTCCTACCAGAGCCGTGCTGACTCCCGGGCCAAGGCCTCCGAGGAAAGCCTGCGCACCT
CCGAGAGGAAGCTCCGCGAGACGGAGGAGAAGCTGCAGAAGCTGAGGACCAACATCGTGGCACTCCTGCAAAAGG
TGCAGGAGGACATAGACATCAACACAGATGATGAGCTGGACGCCTACATTGAGGACCTCATCACCAAGGGGGACT
GAAGGCAGGAGAGAGAGCAGCTCCCCTGCCCACCTGCCCCCTCAACCCTGTAGCTGCAGGGGGAGGGGACTTCATT
CATGGGTTGGTGGTCGCACCTTGGTTTGACTTACACGGGACATTTGTGTTTTTGGAGGAAAAGATACCCTGATTC
TTTGAATCTTCCTTAAGTTTATAAATATTTATTTTTTAAAAG

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FIGURE 6006

MLCFLDDGAGMDPSDAASVIQFGKSAKRTPESTQIGQYGNGLKSGSMRIGKDFILFTKKEDTMTCLFLSRTFHEE
EGIDEVIVPLPTWNARTREPVTDNVEKFAIETELIYKYSFRTTEEVMTQFMKIPGDSGTLVIFNLKLMNDNGEP
ELDIISNPRDIQMAETSPEGTKPERRSFRAYAAVLYIDPRMRIFIHGHKVQTKRLSCCLYKPRMYKYTSSRFKTR
AEQEVKKAEHVARI AEEKAREAESKARTLEVRLGGDLTRDSRVMLRQVQNRAITLRREADVKKRIKEAKQRALKE
PKELNFVFGVNIHRDLDMFIYNCSRLIKMYEKVGPQLEGGMACGGVVGVDVPYLVLEPTHNKQDFADAKEYS
HLLRAMGEHLAQYWKDIAIAQRGI IKFWDEFGYLSANWNQPPSSELRYKRRRAMEIPTTIQCDLCLKWRTLFPQL
SSVEKDYPDTWVCSMNPDPEDRCEASEQKQKVPLGTFRKDMKTQEEKQKQLTEKIRQQQEKLEALQKTTPIRSQ
ADLKKLPLEVTTRPSTEPPVRRPQRPRSPPLPAVIRNAPSRPPSLPTPRPASQPRKAPVISSTPKLPALAAAREEA
STSRLLOPPEAPRKPANTLVKTASRPAPLVQQLSPSLLPNSKSPREVPSPKVIKTPVVKKTESPIKLSPATPSRK
RSVAVSDEEEVEEEAERRKERCKRGRFVVKEKKDSNELSDSAGEEDSADLKRAQKDKGLHVEVRVNREWYTRV
TAVEVGKHVVRWKVKFDYVPTDTPRDRWVEKGSSEVRLMKPPSPEHQSLDTQQEGGEEVGPVQAQAIABAEP
TSECLRIEPTTALSTNHETIDLLVQILRNCLRYFLPPSFPI SKKQLSAMNSDELISFPLKEYFKQYEVGLQNL
NSYQSRADSRASEESLRTSERKLRTEEEKLQKLRTNIVALLQKVQEDIDINTDDELDAYIEDLITKGD

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FIGURE 6007

CAGAATCCAGGGGACGGTTGCTGAGCGGGCCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTCGGGTCCCGAAAGAGCTAAGCCGAGCCTGCGCCGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGCCAGCGAGATGGCGG
ACGAGGCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAACGTCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAAGCTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTG
AAGGCACCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTCACCCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCAGTGCCCTTACAG
CTGAGGTTCCAGGCAGCCCAGAGCCACCCCCAGCCCACCCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGTGCCAGAGCC
CCACCAGAGGGCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCCCTGCCAACGCTCCCTGTGGTGTC
TCAGCCCCCGCCAACCAGGCCAGAACCGAGAGTCCACCCCTTGGCAGCGGACCTTCCTCATTCAGCGGGCTG
GCTCTGTGCGGGATCGTGTCCACAAGTTCACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCCTGACCCCGCAAGGCTCCTGGGCCCTCCCTCACCAGCACCAACCCCTGCCTCCTCCT
CCAGCGGCTCCTCCTCTCGGGGCCCAAGTGATACCTCCTCCCGTTTCAGCAAGGAGCAACGAGGAGTAGCCCAGC
CCCTGGCCCAGCTTCAAGCTGCCCCAGGAGGAGGGGCCAGGGGGCGGGGCTTGGCTGCTAGGCCCCCTTGAAA
ACAGAGCAGGGGGGCTGTGGCACGTTAGAGGAGCCTGGTGCCCCGCTGCCCGTGGCCGTCGGCACTGCCGAGC
CAGGGGGCAGTATGAAGACCACATTACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTGC
TGCTGCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCCTACTCAGCACCAAGTA
GTGGGGGCAAGAGCACCATCACCCGTGTCAACAGCCCTGGGACCCCTGGCTCGGCTGGGCAGTGTCACTCATGTCA
CCAGCTTCAGCCATGCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGACAAGATGCTGGATCAGAGCACGGACTTTG
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCACGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTGAGCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGGCCCGCACCACCACAGTGGAGTCGAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGCACA
TGATGCAAAACCAAGACCTTCTCCTCTTCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCAGGACCAGG
CCAGCCCACGGGCCGGCAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAAGAAAGAGCTGATGAAGGCGC
AGAGTCTGCCCAAGACCTCAGCCTCCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGTCCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTGAGCCAAAGACTCGCGGCTACGAGCACGTCGACATCCAGAATTCTCCTCCAGCT
GGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACCTTCTCCCTGAGGCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCAGCAGCCAGAACTTCAGAGTGGCCTTCTCATCTGCGGAGATGCTGGTGGACTGTGTGCCCTGGTGG
AGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTACCTATGTGCAGTCGCTCTACA
ACCACCTGCGACGCCACGAAGTGCAGCTGCGCGGCAAGAATGTCTAGCCTGCCCCGCCGCGATGGCCAGCCAGTGG
CAAGCTGCCGCCCCCACTCTCCGGGCACCGTCTCCTGCCTGTGCGTCCGCCACCGCTGCCCTGTCTGTTGCGAC
ACCTTCCCCCCCCACATACACGCGAGCGTTTTGATAAATTATTGGTTTTCAACG

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FIGURE 6008

MADEALAGLDEGALRKLLEVTADLAERRRIRSAIRELQRQELEREEEEALASKRFRAERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSRREDSKGLAA
HRLEQCEVPEREEQEQAEVSKPTPTPEGTSQDVTTVTLLLRAPPGSTSSSPASPSSSPTPASPEPPLEPAEAQC
LTAEVPGSPEPPPSPPKTTSPPEQESPTLPSTEGQVVKLLSGPKETPAAQSPTRGPSDTKRADVAGPRPCQRS
SVLSPRQPAQNRESTPLASGPSSFQAGSVRDRVHKFTSDSPMAARLQDGTTPQAALSPLTPARLLGPSLTSTTPA
SSSSGSSSRGSDTSSRFSKEQRGVAQPLAQLRSCQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGGSMKTTFTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVT
HVTFSHAPPSSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAAALRELQRKRQDQDKERERRLQEARGRPGEGRGNTATETTTTRHSQRAADGS AVSTVTKTERLVHS
NDGTRTARTTTVESSFVRRSENGSGSTMQTKTFSSSSSSKKMGSIFDREDQASPRAGSLAALEKRQAEKKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFGVPNANSIKQMLLDWCRAKTRGYEHVDIQNFS
SSWSDGMAFCALVHNFFPEAFDYQLSPQNRNQNFVAFSSAEMLVDCVPLVEVDDMMIMGKKPDPCVFTYVQS
LYNHLRRHELRLRGKNV

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FIGURE 6009

CAGAATCCAGGGGACGGTTGCTGAGCGGGCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTGCGGGTCCCGAAAGAGCTAAGCCGAGCCTGCGCCGGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGCCAGCGAGATGGCGG
ACGAGGCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAACTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTG
AAGGCACCCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTCACCCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCAGTGCCCTTACAG
CTGAGGTTCCAGGCAGCCCAGAGCCACCCCCAGCCCACCCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAGAGACCCCTGCTGCCAGAGCC
CCACCAGAGGCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCTGCCAACGCTCCCTGTGGGTGC
TCAGCCCCCGCCAACCAGCCCAGAACCAGAGTCCACCCCTTGCCAGCGGACCTTCCTCATTCCAGCGGGCTG
GCTCTGTGCGGGATCGTGTCCACAAGTTCACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCCTGACCCCGCAAGGCTCCTGGGCCCTCCCTCACCAGCACCACCCCTGCCTCCTCCT
CCAGCGGCTCCTCCTCTCGGGGCCCAAGTATACCTCCTCCCGTTTCAGCAAGGAGCAACGAGGAGTAGCCACAGC
CCCTGGCCCAGCTTCGAAGCTGCCCCCAGGAGGAGGGCCCCAGGGGGCGGGGCTTGGCTGCTAGGCCCCCTGAA
ACAGAGCAGGGGGGCTGTGGCACGTTAGAGGAGCCTGGTGCCCCGCTGCCCGTGCCGCTGCGCACTGCCGAGC
CAGGGGGCAGTATGAAGACCACATTACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTGC
TGCTGCCCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCTACTCAGCACCAGTA
GTGGGGGCAAGAGCACCATCACCCGTGTCAACAGCCCTGGGACCTGGCTCGGCTGGGCAGTGTCACTCATGTCA
CCAGCTTCAGCCATGCCCCCCCCAGTAGCCGAGGAGGTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGACAAGATGCTGGATCAGAGCACGGACTTG
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGTCCGACAAAGGAAGAGAGACCAGCGGGCAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCAGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTGAGCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGCCCGCACCACCACAGTGGAGTCGAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGCACCA
TGATGCAAACCAAGACCTTCTCCTCTTCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCCGAGGACCAGG
CCAGCCCACGGGCCGGCAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCGC
AGAGTCTGCCCAAGACCTCAGCCTCCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTGAGCCAAGACTCGCGGCTACGAGCACGTGCAGATCCAGAATTCTCCTCCAGCT
GGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACTTCTTCCCTGAGGCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCAGCGCCAGAACTTCGAGGTGGCCTTCTCATCTGCGGAGACCCATGCGGACTGCCCCGAGCTCCTGG
ATACAGAGGACATGGTGC GGCTTCGAGAGCCTGACTGGAAGTGCGTGTACACGTACATCCAGGAATTCTACCGCT
GTCTGGTCCAGAAGGGGCTGGTAAAAACCAAAAAGTCTTAAACCCCTGCTCGGGGCCCCACGGATGCTGGTGGACT
GTGTGCCCTGGTGGAGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTACCTATG
TGCAGTCGCTCTACAACCACCTGCGACGCCACGAAGTGCAGCTGCGCGGCAAGAATGTCTAGCCTGCCCGCCCGC
ATGGCCAGCCAGTGGCAAGCTGCCGCCCCACTCTCCGGGCACCGTCTCCTGCCTGTGCGTCCGCCCCACCGCTGC
CCTGTCTGTTGCGACACCTCCCCCCCCACATACACAGCAGCGTTTTGATAAATTATTGGTTTTCAACG

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FIGURE 6010

MADEALAGLDEGALRKLEVTADLAERRRIRSAIRELQRQELEREEEEALASKRFRERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSRKGLAA
HRLEQCEVPEREEQEQAEVSKPTPTPEGTSQDVTTVTLRLRAPPGSTSSSPASPSSSPTPASPEPPLEPAEAQC
LTAEVPGSPEPPPSPPKTTSPPEQESPTLPSTEGQVVKLLSGPKETPAAQSPTRGPSDTKRADVAGPRPCQRS
SVLSRQPAQNRESTPLASGPSSFQRAGSVRDRVHKFTSDSPMAARLQDGTQAALSPLTPARLLGPSLTSTTPA
SSSSGSSSRGPSDTSSRFKEQRGVAQPLAQLRSCPQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGGSMKTTFTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVT
HVTFSHAPPSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAAALRELQRKRQDQDKERERRLQEARGRPGEGRNTATETTTTRHSQRAADGSAVSTVTKTERLVHS
NDGTRTARTTTTVESSFVRRSENGSGSTMQTKTFSSSSSSKKMGSIFDREDQASPRAGSLAALEKQAEKKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFVGNANSIKQMLLDWCRAKTRGYEHVDIQNFS
SSWSDGMAFCALVHNFFPEAFDYGQLSPQNRQNFVAFSSAETHADCPQLLDTEDMVRLREPDWKC VYTYIQEF
YRCLVQKGLVKKKS

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FIGURE 6011

GCGGTGGCAGTTTGCCGCGGGTGTGTGAAGGGAGACAGTGTGGAGGCCACAGGGTACTCGCCACGATGAGCAGCA
CCTTAGCTAAGATCGCGGAGATAGAAGCAGAGATGGCTCGGACTCAAAGAACAAGGCCACAGCACACCACTTAG
GGCTGCTTAAGGCTCGTCTTGCTAAGCTTCGTGAGAACTCATTACTCAAAGGGTGGTGGTGGTGGAGGTCCAG
GAGAAGGTTTTGATGTGGCCAAGACAGGTGATGCTCGAATTGGATTTGTTGGTTTTCCATCTGTGGGGAAGTCAA
CACTGCTTAGTAACCTGGCAGGGGTATATTCTGAGGTGGCAGCCTATGAATTCACTACTCTGACCACTGTGCCTG
GTGTCATCAGATACAAAGGTGCCAAGATCCAGCTCCTGGATCTCCAGGTATCATTGAAGGTGCCAAGGATGGGA
AAGGTAGAGGTCGTCAAGTCATTGCAGTGGCCCCGAACCTGTAACCTTGATCTTGATTGTTCTGGATGTCCTGAAAC
CTTTGGGACATAAGAAGATAATTGAAAATGAGCTGGAAGGCTTTGGCATTGCTTGAACAGCAAACCCCCCAACA
TTGGCTTTAAGAAGAAGGACAAGGGAGGCATTAATCTCACAGCCACTTGCCCCAGAGTGAGCTGGATGCTGAAA
CTGTGAAGAGCATTCTGGCTGAATACAAGATTATAATGCCGATGTGACTCTACGTAGTGATGCTACAGCTGATG
ACCTCATTGATGTGGTGGGAAGGAAACAGAGTTTATATCCCCTGTATCTATGTGTTAAATAAGATTGACCAAATCT
CCATTGAGGAATTGGATATCATCTATAAGGTGCCTCACTGTGTACCCATCTCTGCCCATCACCGCTGGAATTTTG
ATGACCTATTGGAAAAGATCTGGGACTATCTGAAACTAGTGAGAATTTACACCAAACCCAAAGGCCAGTTACCAG
ATTACACATCCCCAGTGGTGCTTCCTTACTCCAGGACCACAGTGGAGGATTTCTGCATGAAGATTCACAAAAATC
TTATCAAAGAATTTAAATATGCTCTGGTCTGGGGTCTCTCTGTGAAACACAATCCTCAGAAAGTGGGTAAAGACC
ATACGTTGGAGGATGAGGATGTCATTCAAATTGTGAAGAAGTGAACCTTTCCCTTTTCCCATCTGCCGGACGAA
CCACAACAGCGTTCCCCATGATCAAGCACCCCTACCCAGTTCTTTCTGGTTTTGGCAGTCACTGGATCAGGATCC
AGGGGAGGGAGATGGAGGCACCCAACTGGAACCTTCAATTTGTCTTACCTTGGTGTACCTTGTATGTGCAACTGC
ATAAAAGATCTGGTAGGCTGGTCAGCTACATGC

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FIGURE 6012

MSSTLAKIAEIEAEMARTQKNKATAHHLGLLKARLAKLRRELITPKGGGGGGPGEFGDVAKTGDARIGFVGFPSV
GKSTLLSNLAGVYSEVAAYEFTTLTTPGVIRYKGAKIQLLDLPGIIEGAKDGKGRGRQVI AVARTCNLILIVLD
VLKPLGHKKIIENELEGFGIRLNSKPPNIGFKKKDKGGINLTATCPQSELDAETVKSILAEYKIHNA DVTLRSDA
TADDLIDVVEGNRVYIPCIYVLNKIDQISIEELDIYKVP HCVPI SAHHRWNFDDLLEKIWDY LKLVRIYTKPKG
QLPDYTSPVVLPSRTTVEDFCMKIHKNLIKEFKYALVWGLSVKHNPQKV GKDHTLEDEDVIQIVKK

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FIGURE 6013

GTGAGCGGAGCCGGCGCCCCGGGCCCTGCCGGGAGCCCCAGGTGACTTCTCAGGGAGGCGCCCCACCCTGCCCCGCT
CAGAGGGCCAGTGCCGGGTGGGGGTGCCCTTCTAGGGCCTTCGGTCGCAGGTGGGCTCTCCCAGCTGTGACGACG
CGGCCCCGGCCTGAGGAGCCCCGCGGACAAGGTTGAGCGAGTCGTGGGCTTTTTTCCGTCCCCACGTGGGCACG
GCCCCGGGCTGCGTGAGCTCACTTCCTCCACATCTTATCTCCTGCCGGGCGCGGGCGCTTCCCATCAGACAGCAGG
AGCCAGTTCTCAGGGTCCTTGGCTGAACACACAAGCTGCAAAGCTACATATACTCCGGCAGAGCTGGCTGCGGGC
TGCAGACTGCAGGGCCGGTCACTCCGCGCAAGTTTGGGTTCTGTGTTTAGAACTGCCACCTAAGCCCCCTTTATT
TCATCTTTCCTGTGGTGGAACCCCTGCCCCACCGGAGTGTGAGGTTGACTTTTTGGAAAGAGAGCCCTGACCC
TCTATTCTGCACCCGTGAGCCACCGAGACTGAACCAAACCCAGGAAGCGCGCCACCAACCAGCCTCGCAGAGG
CAGAGGCCCTGGAGCAGTGACAGCACAGGAGATCTGCTGGCTCGGGGAAGGGGA

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FIGURE 6014

CTCTTTTACCAAGGACCCGCCAACATGTGCCGCGTTTGCACCAAAACCGTGAAGAAGGCGGCCCGGGTCATCATA
GAAAAGTACTACACACGCCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCAAGGAGATCGCCATTATCCCC
AGCAAGAAGCTCCGCAACAAGATAGCAGGCTATGTCACGCATCTGATGAAATGGATTTCAGAGAGGCCCCAGTAAGA
GGTATCTCCATCAAGCTGCAGGAGGAGGAGAGAGAAAAGGAGAGACAATTATGTTTCCTGAGGTCTCAGCCTTGGAT
CAGGAGATAATTGAAGTAGATCCTGACACTAAGGAAATGCTGAAGCTTTTGGACTTCGGCAGTCTGTCCAACCTG
CAGGTCACTCAGCCTACAGTTGGGATGAACTTCAAAATGCCTCGGGGACCTGTTTGAATTTTTTCTGCAGTGCTG
TATTATTTTCAATAAATCTGGCACAACAGC

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FIGURE 6015

GCTCTGAGAAGCCGGACTACGCGGCAGCGGCTCTTCAAAGCGGAGCCGGGAGTTTTTGTCTACAGTTTTTCGCCACC
ATGAGTCGCAGCTATAATGATGAGCTGCAGTTCTTGGAGAAGATCAATAAAAACTGCTGGAGGATCAAGAAGGGC
TTCGTGCCCAACATGCAGGTTGAAGGTGTTTTCTATGTGAATGATGCTCTGGAGAAATTGATGTTTGAGGAATTA
AGGAATGCCTGTGAGGTTGGTGGTGTGGTGGCTTCTGCCAGCCATGAAACAGATTGGCAATGTGGCAGCCCTG
CCTGGAATTGTTTCATCGATCTATTGGGCTTCTGATGTCCATTGAGGATATGGGTTTGCTATTGGGAACATGGCA
GCCTTTGATATGAATGACCCTGAAGCAGTAGTATCCCCAGGTGGTGTGCGGGTTTGACATCAACTGTGGTGTCCGC
TTGCTAAGAACCAATTTAGATGAAAGTGATGTCCAGCCTGTGAAGGAGCAACTTGCCCAAGCTATGTTTGACCAC
ATTCCTGTTGGGGTGGGGTCAAAAGGTGTATCCCAATGAATGCCAAAGACTTGGAGGAGGCCCTTGGAGATGGGG
GTGGACTGGTCTTAAGAGAAGGGTATGCCTGGGCTGAAGACAAGGAGCACTGCGAGGAGTACGGAAGGATGCTG
CAGGCTGACCCCAATAAAGTTTCTGCAAGGGCGAAGAAAAGAGGCCTTCTCAGTTGGGGACCCTGGGAGCAGGC
AACCATTATGCAGAAATCCAGGTTGTGGATGAGATTTTCAATGAGTATGCTGCTAAAAAATGGGCATCGACCAT
AAGGGACAGGTGTGTGTGATGATCCACAGTGAAGCAGAGGCTTGGGCCACCAAGTAGCCACAGATGCGCTGGTA
GCTATGGAGAAGGCCATGAAGAGAGACAAGATTATAGTCAATGATCGGCAGTTGGCTTGTGCTCGAATCGCTTCC
CCAGAGGGTCAAGACTATCTGAAGGGAATGGCAGCTGCTGGGAACATGCCTGGGTCAACCGCTCTTCCATGACC
TTCTTAACCCGTCAGGCTTTCGCCAAGGTCTTCAACACAACCCCTGATGACTTGGACCTACATGTGATCTATGAT
GTTTCTCACAACATTGCCAAAGTGGAGCAGCATGTGGTGGACGGAAAGGAACGGACACTGTTAGTACACAGGAAG
GGATCCACCCGCGCTTCCCTCCTCACCATCCCTCATTGCTGTTGATTACCAACTCACTGGACAGCCAGTGCTC
ATTGGTGGCACCATGGGAACCTGTAGTTATGTTCTTACTGGCACTGAACAGGGCATGACTGAGACCTTTGGAACA
ACCTGTGATGGAGCGGGCCGTGCATTGTCCCAGCAAAATCTCGACGTAATTTAGATTTCCAGGATGTCCTTAGAC
AAATTGGCAGATATGGGAATTGCGATCCGTGTTGCCTCACCCAAACTGGTTATGGAAGAGGCTCCTGAGTCCTAT
AAGAATGTGACAGATGTGGTAAATACCTGCCATGATGCTGGAATCAGCAAGAAAGCCATTAACTGAGACCAATT
GCTGTGATCAAAGGAT**TAGA**ACCTTGGACAGCAGGGCTGCCTGACACCACCAACCCCTCTCTGAAGTGGAAAGTGGAC
TGACATGCTCTTCTGACATCAGACTCAAGGCGGGACAAGTTGCAAAGTGTGCAGCTGTAAGTGTCTACGCCAAAA
TGGCTGATGGGGAGGCTGCTGCTTTTCAAGGGCCCGTGCTTGTAATAAACCTTCCAGGAAGAGGCACATTGCCCA
CCTTTGGAAGGGAGGAATATGCCTTCTCCTTGGTTGTTCCACAGAGTTTTAGGAAAATCTGTTAGGGATGGGTA
GATGTCAAACCTGCCTTACGCAGTCATACTGATCTTTAGCCATCAGATTGATCTTCTTACACCAAGCTCTGTTTA
CATTCCGAGAGGTGTGATGAAGAAAGTTCTGTTCAATAAGGTTTTGGAATGTTTC

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FIGURE 6016

MSRSYNDELQFLEKINKNCWRIKKGFVPMQVEGVFYVNDALFKLMFEELRNACRGGGVGGFLPAMKQIGNVAAL
PGIVHRSIGLPDVHSGYGFAIGNMAAFDMNDPEAVVSPGGVGF DINCGVRLRLRTNLDES DVQPVKEQLAQAMFDH
IPVGVGSKGVIPMNAKDLEEALEMVDWSLREGYAWAEDKEHCEEYGRMLQADPNKVSARAKKRGLPQLGTLGAG
NHYAIEIQVVDEIFNEYAAKKMGIDHKGQVCVMIHSGSRGLGHQVATDALVAMEKAMKRDKIIVNDRQLACARIAS
PEGQDYLKGMAAAGNYAWVNRSSMTFLTRQAFKVFNTTPDDLHLHVIYDVSHNIAKVEQHVV DGKERTLLVHRK
GSTRAFPPHHPLIAVDYQLTGQPVLIGGTMGTCSYVLTGTEQG MTETFTGTTCHGAGRALSRAKSRRNLDFQDVLD
KLADMGIAIRVASPKLVMEEPESYKNVTDVVNTCHDAGISKKAIKLRPIAVIKG

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FIGURE 6017

CCCCGAGAGGCCCGGTTCCCTTAGGCCGCCTGCCCGCCTCCAGCTCTCGGGGTCTAGGAGGCGCCCTCAG
GAGAGGGGCGGGCGCTCTATCCAGAGACCGAGTGGCAGGGCGGCCACTGTGGCGGGGCTCTTTCCCGTTTCGC
CTCAGCTACCCCTCAGCTCCGGTAGTCGCCAGTCCGGGGTCGTCGCCGTTTGGGGCGGGAGCTGCTCGGCCCGC
CGCCGTCCCGTCGCCGCTTCCGGGTCCAGGCCCTCGGGCCGCCTGCCGCCGTCAATGAGGCTGCGGGTGC GGCT
TCTGAAGCGGACCTGGCCGCTGGAGGTGCCGAGACGGAGCCGACGCTGGGGCATTTCGCTCGCACCTGAGGCA
GTCCCTGCTGTGCACCTGGGGGTACAGTTCTAATACCCGATTTACAATTACATTGAAGTACAAGGATCCCTCAC
TGGAGATGAAGAGACCTTGGCTTCATATGGGATTGTTTCTGGGGACTTGATATGTTTGATTCTTCAAGATGACAT
TCCAGCGCTAATATACCTTCATCCACAGATTCAGAGCATTCTTCACTCCAGAATAATGAGCAACCTCTTTGGC
CACCAGCTCCAATCAGACTAGCATACAGGATGAACAACCAAGTGATTCAATCCAAGGACAGGCAGCCAGTCTGG
TGTTTGGAATGACGACAGTATGTTAGGGCCTAGTCAAAATTTGAAGCTGAGTCAATTCAAGATAATGCGCATAT
GGCAGAGGGCACAGGTTTCTATCCCTCAGAACCCATGCTCTGTAGTGAATCGGTGGAAGGGCAAGTGCCACATTC
ATTAGAGACCTTGATCAATCAGCTGACTGTTCTGATGCCAATGATGCCTTGATAGTGTGATACATCTTCTCAT
GTTGGAGTCAGGTTACATACCTCAGGGCACCGAAGCCAAAGCACTGTCCATGCCGGAGAAGTGGAAGTTGAGCGG
GGTGTATAAGCTGCAGTACATGCATCCTCTCTGCGAGGGCAGCTCCGCTACTCTCACCTGTGTGCCTTTGGGAAA
CCTGATTGTTGTAAATGCTACACTAAAAATCAACAATGAGATTAGAAGTGTGAAAAGATTGCAGCTGCTACCAGA
ATCTTTTATTTGCAAAGAGAACTAGGGGAAAATGTAGCCAACATATACAAAGATCTTCAGAACTCTCTCGCCT
CTTTAAAGACCAGCTGGTGTATCCTCTTTTGGCTTTTACCCGACAAGCACTGAACCTACCAGATGTATTTGGGT
GGTCGTCTCCATTGGAACGAACTACGGATCTTCCGACTTCTGGATGTTGTTCCGTCTTGTCTTTGTCTGC
GGTTTGTCTGACCTCTTTACTGCTTCAAATGACCCACTCCTGTGGAGGTTTTATATCTGCGTGATTTTCGAGA
CAATACTGTGAGATTCAAGACACAGATTGGAAGAAGTGTACAGGAAGAGGCACATACAAAGAAAAGAATCCCC
GAAAGGGCGGTTTGTGATGCTCCTGCCATCGTCAACTCACACCATTCATTCTATCCCAACCCCTTGCACCCTAG
GCCATTTCTAGCTCCCGCCTTCCCTCAGGAATTATCGGGGGTGAATATGACCAAAGACCAACACTCCCTATGT
TGGAGACCAATCAGTTCACCTCATTCCCTGGTCTGGGGAGACGCCAGCCAGTTTCCCTCCACTGAGACCAGCTT
TGATCCAGTTGGCCACTTCCAGGACCTAACCCATCTTGCCAGGGCGAGCGGCCCAATGACAGATTTCCCTT
TAGACCCAGCAGGGGTGCGCCAACCTGATGGCCGGCTGTCATTCATGATTGATTGTAATTTCAATTTCTGGAGC
TCCATTTGTTTTTGTCTTAACTACAGATGTCAACTCCTTGGGGTGCTGATCTCGAGTGTTATTTCTGATTGT
GGTGTGAGAGTTGCACTCCCAGAAACCTTTTAAGAGATACATTTATAGCCCTAGGGGTGGTATGACCAAAGGT
TCCTCTGTGACAAGGTTGGCCTTGGGAATAGTTGGCTGCCAATCTCCCTGCTCTTGGTTCTCCTCTAGATTGAAG
TTTGTCTTCTGATGCTGTTCTTACCAGATTAAAAAAAAGTGTAAATTAAAAAAA

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FIGURE 6018

MRLRVRLKRTWPLEVPEPTLGHLRSHLRQSLCTWGYSSNTRFTITLNYKDPLTGDEETLASYGIVSGDLIC
LILQDDIPAPNIPSSDSEHSSLQNEQP SLATSSNQTSIQDEQPSDSFQGQAAQSGVWDDSM LGPSQNFEAES
IQDNAHMAEGTGFYPSEPMLCSESVEGQVPHSLETLYQSADCSDANDALIVLIHLLMLESgyIPQGTEAKALSMP
EKWKLSGVYKLQYMHPLCEGSSATLTCVPLGNLIVVNATLKINNEIRSVKRLQLLPESFICKEKLGENVANIYKD
LQKLSRLFKDQLVYPLLAFTRQALNLPDVFGLVVLPLELKLRIFRLLDVRSVLSLSAVCRDLFTASNDPLLWRFL
YLRDFRDNTVRVQD TDWKELYRKRHIQRKESPKGRFVMLLPSSSTHTIPFYPNPLHPRFPSPSSRLPPGIIGGEYDQ
RPTLPYVGDP ISSLIPGPGETPSQFPPLRPRFDFVGPLPGPNPILPGRGGPNDRFPFRPSRGRPTDGRLSFM

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FIGURE 6019A

CTTGCCCCAGAGCTGATCCTTGTCTTTGTCCACTTCTCAGCGAGGATGGCACTTCAGGGAGCCCTTCCCTTACTA
TCGCAGAGAGAGCAGGCCCTCCCCAGTCATGTCCAACCCAGAACTCTGTTTTGTTTTCTTCATAGCCCTAGCATC
ACAGAAAAATCACCCTGTGCATTTCATGGATGTCCACGGGGGCAAGGGCTTTGTGTTGCTTAACCCAGCATCCTGAA
CCGTGTTTTGTGAATGAATACAGAACCCCGTTTGCTCTGGGAGAGCACAGAAAACAGTCTTCTATCATATATCAT
AGCCAGCTGCAACAGCAGATGGCTTCCCATATCCCAGAGAGTAAGAACCAGAGAGAGAGAGAAAGAGAGAGAGT
TTGGGTCTTTCTCCTCTGTGCCTGCTCTCTCCAGAGAACTGGAGGGGTAGCAGTTAGCATTCCCCCGCTGGTTC
CACCAAGCACAGTCAAGGTCTCTAGGACATGGCCACCCCTCACCTGTGGAAGCGGTCTGTGGGTGGGTGGGT
GTTAGTTGGTTCTGGTTTGGGTCAGAGACACCCAGTGGCCAGGTGGGCGTGGGGCCAGGGCGCAGACGAGAAGG
GGCACGAGGGCTCCGCTCCGAGGACCCAGCGGCAAGCACCGGTCCCGGGCGCGCCCCAGCCCACCCACTCGCGTG
CCCACGGCGGCATTATTCCCTATAAGGATCTGAACGATCCGGGGGCGGCCCCGCCCCGTACCCCTTGCCCCCGG
CCCCGCCCCCTTTTGGAGGGCCGATGAGGTAATGCGGCTCTGCCATTGGTCTGAGGGGGCGGGCCCCAACAGCC
CGAGGCGGGTCCCCGGGGGCCAGCGCTATATCACTCGGCCGCCAGGCAGCGGCGCAGAGCGGGCAGCAGGCA
GGCGGCGGGCGCTCAGACGGCTCTCCTCCTCCTCTGTCTCTCCAGCTCCTGCTCCTTCGCCGGGAGGGCCGCC
GCCGAGTCTGCGCCAGCGCCGAGGCAGCTCGCTGCGCCCCATCCCGTCCCGCCGGGCACTCGAGGGCAGCGC
GCCGGAGGCCAAGTTGCCCCGCACGGCCCGGGCGGGCGAGCGAGCTCGGGCTGCAGCAGCCCCGCCGGCGGGCGC
CACGGCAACTTTGGAGAGGCGAGCAGCAGCCCCGGCAGCGGGCGGCAGCAGCGGCAATGACCCCTTGGCTCGGGCT
CATCGTCTCCTGGGCAGCTGGAGCCTGGGGGACTGGGGCGCCGAGGCGTGACATGCTCGCCAGCCACCCCA
GGACGCCCTTCTGCAACTCCGACATCGTGATCCGGGCCAAGGTGGTGGGGAAGAAGCTGGTAAAGGAGGGGCCCTT
CGGCACGCTGGTCTACACCATCAAGCAGATGAAGATGTACCGAGGCTTACCAAGATGCCCCATGTGCAGTACAT
CCATACGGAAGCTTCCGAGAGTCTCTGTGGCCTTAAGCTGGAGGTCAACAAGTACCAGTACCTGCTGACAGGTG
CGTCTATGATGGCAAGATGTACACGGGGCTGTGCAACTTCGTGGAGAGGTGGGACCAGCTCACCTCTCCAGCG
CAAGGGGTGAACTATCGGTATCACCTGGGTGTAACTGCAAGATCAAGTCTGCTACTACCTGCCTTGTCTTGT
GACTTCCAAGAACGAGTGTCTCTGGACCGACATGCTCTCQAATTTTCGGTTACCCTGGCTACCAGTCCAAACACTA
CGCCTGCATCCGGCAGAAGGGCGGCTACTGCAGCTGGTACCGAGATGGGCCCCCGGATAAAAGCATCATCAA
TGCCACAGACCCTGAGCGCCAGACCCTGCCCCACCTCACTTCCCTCCCTTCCCGCTGAGCTTCCCTTGGACACT
AATCTTCCAGATGATGACAAATGAAATAGTGCCTGTTTTCTTGCAAATTTAGCACTTGAACATTTAAAGAAA
GGTCTATGCTCATATGGGGTTTATTGGGAACATCCTCCTGGCCCCACCCTGCCCTTCTTTTGGTTTTTGAC
ATCATTCAATTTCCACCTGGGAATTTCTGGTGCCATGCCAGAAAGAATGAGGAACCTGTATTCTCTCTCTCGTGA
TAATATAATCTCTATTTTTTTAGGAAAAACAAAATGAAAACTACTCCATTTGAGGATTGTAATTTCCACCCCTC
TTGCTTCTTCCCCACCTCACCATCTCCAGACCCTCTTCCCTTTGCCCTTCTCCTCCAATACATAAAGGACACAG
ACAAGGAACCTTGCTGAAAGGCCAACCATTTAGGATCAGTCAAAGGCAGCAAGCAGATAGACTCAAGGTGTGTGA
AAGATGTTATACACCAGGAGCTGCCACTGCATGTCCCAACCAGACTGTGTCTGTCTGTGTCTGCATGTAAGAGTG
AGGGAGGGAAGGAAGGAAGTACAAGAGAGTCGGAGATGATGCAGCACACACACAATTTCCAGCCAGTGTGCT
TGTGTTGACCAGATGTTCCCTGAGTCTGGAGCAAGCACCCAGGCCAGAATAACAGAGCTTTCTTAGTTGGTGAAGA
CTTAAACATCTGCCGAGGTGAGGAGGCAATTTGCCTGCCTTGTACAAAAGCTCAGGTGAAAGACTGAGATGAAT
GTCTTTCTCTCCCTGCCCTCCACAGACTTCCCTCCTGGAAAACGCTTTGGTAGATTTGGCCAGGAGCTTTCTTT
TATGTAAATTGGATAAAATACACACACCATACTATCCACAGATATAGCCAAGTAGATTTGGGTAGAGGATACTA
TTTCCAGAATAGTGTTAGCTCACCTAGGGGGATATGTTTGTATACACATTTGCATATACCCACATGGGGACATA
AGCTAATTTTTTTACAGGACACAGAATTTCTGTTCAATGCTGTTAAATATGCCAATAGTTTAACTCTCTTATTTT
GTTGTCGTTGCTTGTGTTGAAGAAAATCATGACATTCCAAGTTGACATTTTTTTTTTCAATTTAATTAATTTGAA
ATTCTGAACACCGTCAGCACCCCTCTCTTCCCTATCATGGGTGCTGACCCCTGTCCGTCTCCTTGCTCCCTGCTT
CATGTTTGGGGGCCCTTCTTTAACTGCCTTCTGGCTTAGCTCAGATGGCAGATGAGAGTGTAGTCAAGGGCCTG
GGCACAGGAGGGAGAGCTGCAGAGTGTCTGCTGCTTGGCTGGAGGGACACCTCTCCTGGGTGTGGAGACAGC
TTGGTTCCCTTTCCCTAGCTCCCTGGTGGGTGAATGCCACCTCCTGAGATCCTCACCTCTTGGAAATTAATTTGT
TGGTCACTGGGGAAAGCCTGAGTTTGCAACCAGTTGTAGGGTTTCTGTTGTGTTTTTTTTTTTTTTTTTGAATA
AACTATAATATAAATTTCTCTATTAATAAAAATTAATTTTAAAGTTTTAGTGTCAAAGTGAGATGCTGAGAGTAG
GTGATAATGTATATTTTACAGAGTGGGGGTGGCAGGATGGTGACATTGAACATGATTGCTCTCTGCTCTTTTTT
TCAGCTTATGGGTATTTATCTTCTATTAGTATTTGTATCTTCAGTTCAATTCACCTTTAGGAAACAGAGCTGCCAA

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FIGURE 6019B

TTGAAACAGAAGAAGAAAAAAGCAGCAGACAACACACTGTAGAGTCTTGACACACACAAGTGCCAG
GCAAGGTGCTTGGCAGAACCGCAGAGTGGGAAGAGAGTACCGGCATCGGGTTTCCTTGGGATCAATTTATTACC
GTGTACCTTTCCCATTTGTGGTCATGCCATTTGGCAGGGGAGAAATGGGAGGCTTGGCCTTCTTTGTGAGGCAGTG
TGAGCAGAAGCTGATGCCAGCATGTCACTGGTTTTGAAGGGATGAGCCCAGACTTGATGTTTTGGGATTGTCCTT
ATTTTAACCTCAAGGTCTCGCATGGTGGGGCCCTGACCAACCTACACAAGTTCCCTCCCACAAGTGGACATCAG
TGTCTTCTCTGTGAGGCATCTGGCCATTGCACTCCCTGGTGTGGTCAGCCTCTCTCACACAAGGAGGAACCTGG
GTGAAGGCTGAGTGTGAGGCACCTGAAGTTTCCCTGCGGAGTCGATAAATTAGCAGAACCACATCCCCATCTGTT
AGGCCTTGGTGAGGAGGCCCTGGGCAAAGAAGGGTCTTTCGCAAAGCGATGTCAGAGGGCGGTTTTGAGCTTTCT
ATAAGCTATAGCTTTGTTTATTTACCCGTTCACTTACTGTATAATTTAAATCATTATGTAGCTGAGACACTT
CTGTATTTCAATCATATCATGAACATTTTATTTTGCTAAATCTTGTGTCATGTGTAGGCTGTAATATGTGTACAT
TGTGTTTAAGAGAAAAATGAAACCCACATGCCGCCATTTTCTGAATCAAATTCTGCAGTGGAATGGAGAGGAAA
ATACTTCTAGGCAAGCAGCTAGACTGGTGAATTGGGGGAAATAGAAGGAAGTAGTAAGTGAAGTCTCCAGCCT
CCTCCCTATTGGAATCCCAATGGCTCCTGGAGTAGGAAAAAGTTTAAACTACATTCATGTTCTTGTCTGTGTC
ACTCGGCCCTGGGTAGTCTACCATTTACTTCACCCCAAGTCCTGCTGCCCATCCAGTTGGGAAGCCATGATTTTC
CTAAGAATCCAGGGCCATGGGAGATACAATTCCAAGTTCTCGCTTCCCTCCTTTGGGCATCTCTTCTGCCTCCCAA
TCAAGGAAGCTCCATGCTCAGGCTCTCAGCTCTCGGGCCAGTGCTCTGCTCTGTCCAGGGTAGGTAATACTGGGA
GACTCCTGTCTTTTACCCCTCCCTCGTTCCAGACCTGCCTCATGGTGGCAACATGGTTCTTGAACAATTAAAGAA
ACAAATGACTTTTTTGGAATAGCCCTGTCTAGGGCAAAGTGTGGCCCCCAGGAGACACTACCCTTCCATGCCCCAG
ACCTCTGTCTTGCAATGTGACAATTGACAATCTGGACTACCCCAAGATGGCACCACAGTGTGTTGGCTTCTGGCTAC
CTAAGGTTAACATGTCACTAGAGTATTTTATGAGAGACAAACATTATAAAAAATCTGATGGCAAAAGCAAAACAA
AATGGAAAAGTAGGGGAGGTGGATGTGACAACAACCTTCAAATTGGCTCTTTGGAGGCGAGAGGAAGGGGAGAACT
TGGAGAATAGTTTTTGCCTTGGGGGTAGAGGCTTCTTAGATTCTCCAGCATCCGCCTTTCCCTTTAGCCAGTCT
GCTGTCTTGAACCCAGAAGTGATGGAGAGAAACCAACAAGAGATCTCGAACCCTGTCTAGAAGGAATGTATTG
TTGCTAAATTTTCGTAGCACTGTTTACAGTTTTCTCCATGTTATTTATGAATTTTATATTCCGTGAATGTATATT
GTCTTGTAATGTTGCATAATGTTCACTTTTTATAGTGTGTCCTTTATTCTAAACAGTAAAGTGTTTTATTCTA
TCAC

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FIGURE 6020

TCAACGCCTGCCTCCCCCTCGAGCGTCCTCAGCGCAGCCGCCGCCGCGGAGCCAGCACGAACGAGCCCAGCACCG
GCCGGATGGAGCGTCCGCAACCCGACAGCATGCCCCAGGATTTGTGAGAGGCCCTGAAGGAGGCCACCAAGGAGG
TGCACACCCAGGCAGAGAATGCTGAGTTCATGAGGAACTTTTCAAGAGGGCCAGGTGACCCGAGACGGCTTCAAGC
TGGTGATGGCCTCCCTGTACCACATCTATGTGGCCCTGGAGGAGGAGATTGAGCGCAACAAGGAGAGCCCAGTCT
TCGCCCCCTGTCTACTTCCCAGAAGAGCTGCACCGCAAGGCTGCCCTGGAGCAGGACCTGGCCTTCTGGTACGGGC
CCCGCTGGCAGGAGGTTCATCCCTACACACCAGCCATGCAGCGCTATGTGAAGCGGCTCCACGAGGTGGGGCGCA
CAGAGCCCGAGCTGCTGGTGGCCACGCCTACACCCGCTACCTGGGTGACCTGTCTGGGGGCCAGGTGCTCAAAA
AGATTGCCCAGAAAGCCCTGGACCTGCCCAGCTCTGGCGAGGGCCTGGCCTTCTTACCTTCCCCAACATTGCCA
GTGCCACCAAGTTCAAGCAGCTCTACCGCTCCCGCATGAACTCCCTGGAGATGACTCCCGCAGTCAGGCAGAGGG
TGATAGAAGAGGCCAAGACTGCGTTCCTGCTCAACATCCAGCTCTTTGAGGAGTTGCAGGAGCTGCTGACCCATG
ACACCAAGGACCAGAGCCCCCTCACGGGCACCAGGGCTTCGCCAGCGGGCCAGCAACAAAGTGCAAGATTCTGCCC
CCGTGGAGACTCCCAGAGGGAAGCCCCCACTCAACACCCGCTCCCAGGCTCCGCTTCTCCGATGGGTCTTACAC
TCAGCTTTCTGGTGGCGACAGTTGCTGTAGGGCTTTATGCCATGTGAATGCAGGCATGCTGGCTCCCAGGGCCAT
GAACTTTGTCCGGTGGAAAGGCCTTCTTTCTAGAGAGGGAATTCTCTTGGCTGGCTTCCTTACCGTGGGCACTGAA
GGCTTTCAGGGCCTCCAGCCCTCTCACTGTGTCCCTCTCTCTGGAAAGGAGGAAGGAGCCTATGGCATCTTCCCC
AACGAAAAGCACATCCAGGCAATGGCCTAACTTCAGAGGGGGCGAAGGGGTGAGCCCTGCCCTTCAGCATCCTC
AGTTCCTGCAGCAGAGCCTGGAAGACACCCTAATGTGGCAGCTGTCTCAAACCTCCAAAAGCCCTGAGTTTCAAG
TATCCTTGTTGACACGGCCATGACCACTTCCCCGTGGGCCATGGCAATTTTTACACAAACCTGAAAAGATGTTG
TGTCTGTGTTTTTGTCTTATTTTTGTGGAGCCACTCTGTTCTGGCTCAGCCTCAAATGCAGTATTTTTGTTG
TGTCTGTGTTTTTATAGCAGGGTGGGGTGGTTTTTGAGCCATGCGTGGGTGGGGAGGGAGGTGTTTAACGGC
ACTGTGGCCTTGGTCTAACTTTTGTGTGAAATAATAACAACATTGTCTG

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FIGURE 6021

MERPQPD SMPQDLSEALKEATKEVHTQAENAEFMRNFQKGQVTRDGFKLVMASLYHIYVALEEEIERNKESPVFA
PVYFPEELHRKAALEQDLAFWYGPRWQEVIPYTPAMQRYVKRLHEVGRTEPELLVAHAYTRYLGDLGGQVLKKI
AQKALDLPSSGEGLAFFTFPNIASATKFKQLYRSRMNSLEMPAVRQRVIEEAKTAFLNQLFEELQELLTHDT
KDQSPSRAPGLRQRASNKVQDSAPVETPRGKPPLNTRSQAPLLRWVLTLSFLVATVAVGLYAM

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FIGURE 6022

TTTTCCCGCGAAACTCGGCGGCTGAGCGTGGAGGTTCTTGCTCCCCCTGGTTTGTGAAGTGCGGAAAACCAGAGG
CGCAGTCAATGTTCGGGATTTCGACGATCCTGGCATTCTTCTACAGCGACAGCTTCGGGGGCGACGCCCAGGCCGACGA
GGGGCAGGCCCGCAAATCGCAGCTGCAGAGGCGCTTCAAGGAGTTTCCTGCGGCAGTACCGAGTGGGCACCGACCG
CACGGGCTTCACCTTCAAATACAGGGATGAACTCAAGCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGA
GATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGCCGACTACTTGTACAAGCAGCCAGCCGAGCACCTGCAGCT
GCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGTGACCCGGCCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGA
CATCCAGGTCACTGCTCAAGTCGGACGCCAGCCCTTCCAGCATTTCGTAGCCTGAAGTCGGACATGATGTACACCT
GGTGAAGATCCCTGGCATCATCATCGCGGCCCTCTGCGGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGCCG
CAGCTGCCGCAACACCCTCACCAACATTGCCATGCGCCCTGGCCTCGAGGGCTATGCCCTGCCCAGGAAGTGCAA
CACAGATCAGGCTGGGCGCCCCAAATGCCCATTTGGACCCGTACTTCATCATGCCCCGACAAATGCAAATGCGTGGA
CTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGCAGTCCCCACGGGGAGATGCCCAGACACATGCAGCTCTA
CTGCGACAGGTACCTGTGTGACAAGTTCGTCCCTGGGAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAA
GTTTGGCCTGACTACCAGCAGGGGCGGTGACAGGTTGGGCGTGGGCATCCGAAGCTCCTACATCCGTGTCTGGG
CATCCAGGTGGACACAGATGGCTCTGGCCGCAGCTTTGCTGGGGCCGTGAGCCCCCAGGAGGAGGAGGAGTTCCG
TCGCTGGCTGCCCTCCCAAATGTCTATGAGGTCACTTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGCACAGA
CATGAAGAAGGCCATTGCCTGCCTGCTCTTTGGGGGCTCCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGG
AGACATCAACCTGCTGATGCTAGGGGACCCTGGGACAGCCAAGTCCAGCTTCTGAAGTTTGTGGAGAAGTGTTT
TCCCATTTGGGGTATACACGTCTGGGAAAGGCAGCAGCGCAGCTGGACTGACAGCCTCGGTGATGAGGGACCCTTC
GTCCCGGAATTTATCATATGGAGGGCGGAGCCATGGTCTGGCCGATGGTGGGGTCGTCTGTATTGACGAGTTTGA
CAAGATGCGAGAAGATGACCGTGTGGCAATCCACGAAGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGG
GATCACCACCACCCTGAACTCCCGCTGCTCCGTCTGGCTGCTGCCAACTCAGTGTTCGGCCGCTGGGATGAGAC
GAAGGGGGAGGACAACATTGACTTTCATGCCACCATCTTGTGCGGCTTCGACATGATCTTCATCGTCAAGGATGA
GCACAATGAGGAGAGGGATGTGATGCTGGCCAAGCATGTCACTACTTGCACGTGAGCGCACTGACACAGACACA
GGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAAGAAGTTTATTGCCTACTGCCGAGTGAAGTGTGGCCCCCG
GCTGTGAGCAGAGGCTGCAGAGAACTGAAGAACCCTACATCATCATGCGGAGCGGGGCCCCGTCAGCACGAGAG
GGACAGTGACCGCCGCTCCAGCATCCCCATCACTGTGCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCT
CAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGCAGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCCAC
GTTGGATGCTGCCTTGTCCGGTACCCTGTGAGGGGTGGAGGGCTTACCAGCCAGGAGGACCAGGAGATGCTGAG
CCGCATCGAGAAGCAGCTCAAGCGCCGCTTTGCCATTGGCTCCAGGTGTCTGAGCACAGCATCATCAAGGACTT
CACCAAACAGAAATACCCGGAGCACGCCATCCACAAGGTGCTGCAGCTCATGCTGCGGCGCGGGCAGATCCAGCA
TCGCATGCAGCGCAAGGTTCTCTACCGCCTCAAGTGAAGTGCAGCGCCCTCACTGGACTCATGGACTCGCCACGC
CTCGCCCCCTCCTGCGCTGCCTGCCATTGACAATGTTGCTGGGACCTTGCCTCCCCACTGCAGCCCTCGAACTT
CCCAGGCACCCTCCTTTCTGCCCCAGAGGAAGGAGCTGTAGTGTCTGCTGCCTCTGGGCGCCCCGCTCTAGCGC
GGTTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAATAAAGCCACGGTGTGTTTCAGGT

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FIGURE 6023

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWIEVEME
DLASFDEDLADYLYKQPAEHLQLLEEAKEVADEVTRPRPSGEEVLQDIQVMLKSDASPSSIRSLKSDMMSHLVK
IPGIIIAASAVRAKATRISIQCRSCRNTLTNIAMRPGLEGYALPRKCNTDQAGRPKCPLDPYFIMPDKCKCVDFQ
TLKLQELPDVPHGEMPRHMQLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIQ
VDTDGSGRSFAGAVSPQEEEEFRRLAALPNVYEVISKSIAPSIFFGGTDMKKAIACLLFGGSRKRLPDGLTRRGI
NLLMLGDPGTAKSQLLKFEKCSPIGVYTSKGKSSAAGLTASVMRDPSSRNFIMEGGAMVLADGGVVCIDEFDKM
REDDRVAIHEAMEQQTISIAGITTTLSRCSVLAAANSVFGRWDETKGEDNIDFMPTILSRFDMIFIVKDEHN
EERDVMLAKHVITLHVSALTQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS
DRRSSIPITVRQLEAIVRIAEALSKMKLQPFATEADVEEALRLFQVSTLDAALSGTSLSGVEGFTSQEDQEMLSR
EKQLKRRFAIGSQVSEHSIIKDFTKQYPEHAHVKVLQMLRRGEIQHRMQRKVLYRLK

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FIGURE 6024

GAGGTGCTGGGGAGCAGCGTGTGCTGTGCTTGATTGTGAGCTGCTGGGAAGTTGTGACTTTTCATTTTACCTTT
CGAATTCCTGGGTATATCTTGGGGGCTGGAGGACGTGTCTGGTTATTATATAGGTGCACAGCTGGAGGTGAGATC
CACACAGCTCAGACCAGCTGGATCTTGCTCAGTCTCTGTGAGAGGAAGATCCCTTGGAGGAGGCCCCGAGCGAC
ATGGAGGGAGCTGCTTTGCTGAAAACTTTGTCGTCTGCATCTGGGTGCAGCAAAACCATCCAGGCTGGACAGTG
GCTGGACAGTTCCAAGAAAAAGAAACGCTTCACTGAAGAAGTCATTGAATACTTCCAGAAGAAAGTTAGCCCAGTG
CATCTGAAAACTCTGCTGACTAGCGATGAAGCCTGGAAGAGATTTGTGCGTGTGGCTGAATTGCCAGGGAAGAG
GCAGATGCTCTCTATGAAGCTCTGAAGAATCTTACACCATATGTGGCTATTGAGGACAAAGACATGCAGCAAAAA
GAACAGCAGTTTAGGGAGTGGTTTTTGAAGTTTCCTCAATCAGATGGAAGATTCCAGGAGTCCATAGAAAGGCT
TCGTGTCATTGCAAAATGAGATTGAAAAGGTCCACAGAGGCTGCGTCATCGCCAATGTGGTGTCTGGCTCCACTGG
CATCTGTCTGTGCTATTGGCGTTATGTTGGCACCATTACAGCAGGGCTGAGCCTGAGCATTACTGCAGCTGGGGT
AGGGCTGGGAATAGCATCTGCCACGGCTGGGATCGCCTCCAGCATCGTGGAGAACACATACACAAGGTCAGCAGA
ACTCACAGCCAGCAGGCTGACTGCAACCAGCACTGACCAATTGGAGGCATTAAGGGACATTCTGCGTGACATCAC
ACCCAATGTGCTTTCTTTTGCACTTGATTTTGACGAAGCCACAAAAATGATTGCGAATGATGTCCATACACTCAG
GAGATCTAAAGCCACTGTTGGACGCCCTTTGATTGCTTGGCGATATGTACCTATAAATGTTGTTGAGACACTGAG
AACACGTGGGGCCCCACCCGGATAGTGAGAAAAAGTAGCCCGGAACCTGGGCAAGGCCACTTCAGGTGCTCTGT
TGTGCTGGATGTAGTCAACCTTGTGCAAGACTCACTGGACTTGACAAGGGGGCAAAATCCGAGTCTGCTGAGTC
GCTGAGGCAGTGGGCTCAGGAGCTGGAGGAGAATCTCAATGAGCTCACCCATATCCATCAGAGTCTAAAGCAGG
CTAGGCCCAATTGTTGCGGGAAGTCAGGGACCCCAACGGAGGGACTGGCTGAAGCCATGGCAGAAGAAGCTGGA
TTGTGAAGATTTTCATGGACATTTATTAGTTCCCAAAATTAATACTTTTATAATTTCTATGCCTGTCTTTACCGC
AATCTCTAAACACAAATTTGTGAAGATTTTCATGGACACTGATCACTTCCCAATCAATACCCTTGTGATTTCTTAT
GCCTGTCTTTACTTTAATCTCCTAATCCTGTGCTGAGCTGAGGAGGATGTATGTCACCTCAGGACCATGTGATAATTG
CGTTAACTGCACAAATTTGTAGAGCATGTGTGTTTGAACAATATGAAATCTGGGCACCTTGAAAAAGAACAGGAT
AACAGCAATTTGTCAGGGAATAAGAGAGATAACCTTAAACTCTGACCAACAGTGAGCCTGGTGGAACAGAGTCAT
ATTTCTCTCTTTCAAAAGCAAAATGGGAGAAATATCGCTGAATTTCTTTTCTCAGCAAGGAACATCCCTGAGAAA
GAGAATGCACCCCTGAGGGTGGGTCTATAAATGGCCTCCTTGGGTGTGGCCATCTTCTATGGTGCAGACTGTAGG
GATGAAATAAACCCTGCTCTCCCATAGCGCTCCCAGGCTTATTAGGAAGAGGAAATCCCCGCCATAAAATTTTG
GTCAGACCGGTTGCTCTCAAAACCCTGTCTCCTGATAAGATGTTATCAATGACAATGGTGCCGAAACCTCATT
GCAATTTTAATTTCTCCCGGTCTGTGTTTCTGTGATCTCGCCCTGCCTCCACTTGCCTTGTGATATTCTATTA
CCTTGTGAAGTAGGTGATCTTTGTGACCCACACCCACACCTATTATACACTCCCTCCCTTTTGAAAGTCCCT
AATAAAAACCTTGCTGGTTTTGCGGCTTGTGAGGCATCACGGAACCTACCGATGTGTGATGTCTCCCTGGACACC
TAGCTTTAAATTTCTCTCTTTTGTACTCTGTGCCTTTATTTCTCAAACCGGCCAACACTTAGGGAAAATAGAAA
AGAACCTACGTGACCATCGGGCAGGTTCCCCGATACCCAATGACCCAGAGCAGTGAGCCACCAGGGAAGGTG
AGCCAGACACAGGCCGGGACAAAACGCAGACATTTTTTAGGGGAATAAAGAGGGCGAGGTAAAGTTTATGGAAC
CAGTGTTAGGAACCTTGGCATCTGTAGCTGAGCACAGCAGGGGAGGGTTACTCAAGATGGCAAGTGCGCCAAGG
AGAAGGCAGAAATGCTGGGGCCTGGAATAAGGGAGGAGAGGGGACTGGAGAGTGTGGGGAATGGAAGAAGCAGT
TTACTCTAGACTAAAGAGTATATTGGGGGAGGAAGAGAGGGAGGCACGTAGGAACAAGCAATGAGAAGACCAGGA
AAAGAAAAGAGCTGAAAATGGAGAAAGCCACAGTTAGAATGTTGGATACAGGAGAAGAAACAGCGGCTCCACTAA
AGACCCGCCCCCGGTTGGATGTCCTTCCAAGAATGGAATCCTTCCCTGGTGATGGTCTCTACCCCTGTCTTACC
AGCATCCACTCTCCCTTGTCTCCCGGGGGTGTATCTGAGTCAGCCAGTGGCTTCTTGATGATGGTGGTGGTGGT
TGTAAGTGACAGGTCCCTTTAGGTTATTTAAGGGTGCATGTCCCTGCTTGAACCTGAAGGCCGGGTAATGA
GCCATTTCCATGGTGCCAGCTGAGGACCAGGTGTCTCTGAGAATCCAAACATCCTGGAGAGTATCTGAGAACCA
ACCAAGTAAAGTCTCGTTGCTCATATATAGTAGACAAAGAGCCAGAAAATTAAGTGAAGCAGTTTAGACATT
GGGGGAGGCTGGATCTCTGAGCTGTCTTGTGAGTGCCCTGTGTGTAAGTCCTAATAAACTTAGCTACTCGCCA

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FIGURE 6025A

ATGGCACAGCAAGCTGCCGATAAGTATCTCTATGTGGATAAAAACTTCATCAACAATCCGCTGGCCCAGGCCGAC
TGGGCTGCCAAGAAGCTGGTATGGGTGCCTTCCGACAAGAGTGGCTTTGAGCCAGCCAGCCTCAAGGAGGAGGTG
GGCGAAGAGGCCATCGTGGAGCTGGTGGAGAATGGGAAGAAGGTGAAGGTGAACAAGGATGACATCCAGAAGATG
AACCCGCCCAAGTTCTCCAAGGTGGAGGACATGGCAGAGCTCACGTGCCTCAACGAAGCCTCGGTGCTGCACAAC
CTCAAGGAGCGTTACTACTCAGGGCTCATCTACACCTATTTCAGGCCTGTTCTGTGTGGTTCATCAATCCTTACAAG
AACCTGCCCATCTACTCTGAAGAGATTGTGGAAATGTACAAGGGCAAGAAGAGGCACGAGATGCCCCCTCACATC
TATGCCATCACAGACACCGCCTACAGGAGTATGATGCAAGACCGAGAAGATCAATCCATCTTGTGCACTGGTGAA
TCTGGAGCTGGCAAGACGGAGAACACCAAGAAGGTTCATCCAGTATCTGGCGTACGTGGCGTCTCGCACAAAGAGC
AAGAAGGACCAGGGCGAGCTGGAGCGGCAGCTGCTGCAGGCCAACCCCATCCTGGAGGCCTTCGGGAACGCCAAG
ACCGTGAAGAATGACAACTCCTCCCGCTTCGGCAAATTCATTTCGCATCAACTTTGATGTCAATGGCTACATTGTT
GGAGCCAACATTGAGACTTATCTTTTGGAGAAATCTCGTGCTATCCGCCAAGCCAAGGAAGAACGGACCTTCCAC
ATCTTCTATTATCTCCTGTCTGGGGCTGGAGAGCACCTGAAGACCGATCTCCTGTTGGAGCCGTACAACAAATAC
CGCTTCTGTCCAATGGACACGTACCATCCCCGGGCAGCAGGACAAGGACATGTTCCAGGAGACCATGGAGGCC
ATGAGGATTATGGGCATCCCAGAAGAGGAGCAAATGGGCCTGCTGCGGGTCATCTCAGGGGTTCTTCAGCTCGGC
AACATCGTCTTCAAGAAGGAGCGGAACACTGACCAGGCGTCCATGCCCGACAACACAGCTGCCCAAAAGGTGTCC
CATCTCTTGGGTATCAATGTGACCGATTTACCAGAGGAATCCTCACCCGCGCATCAAGGTGGGACGGGATTAC
GTCCAGAAGGCGCAGACTAAAGAGCAGGCTGACTTTGCCATCAGGGCCTTGGCCAAGGCGACCTATGAGCGGATG
TTCCGCTGGCTGGTGGCTGCGCATCAACAAGGCTCTGGACAAGACCAAGAGGCAGGGCGCCTCCTTCATCGGGATC
CTGGACATTGCCGGCTTCGAGATCTTTGATCTGAACCTCGTTTGGAGAGCTGTGCATCAATTACACCAATGAGAAG
CTGCAGCAGCTCTTCAACCACACCATGTTTCATCTGGAGCAGGAGGAGTACCAGCGCAGGGCCATCGAGTGGAAAC
TTCATCGACTTTGGCCTCGACCTGCAGCCCTGCATCGACCTCATTGAGAAGCCAGCAGGCCCCCGGGCATCTCTG
GCCCTGCTGGACGAGGAGTGCTGGTTCCCCAAAGCCACCGACAAGAGCTTCGTGGAGAAGGTGATCGCAGGACGAG
GGCACCCACCCCAAGTTCCAGAAGCCCAAGCAGCTGAAGGACAAAGCTGATTTCTGCATTATCCACTATGCCGGC
AAGGTGGATTACAAAGCTGACGAGTGCGTGATGAAGAACATGGATCCCCTGAATGACAACATCGCCACACTGCTC
CACCAGTCTCTGACAAGTTTGTCTCGGAGCTGTGGAAGGATGTGGACCGCATCATCGGCCTGGACAGGTGGCC
GGCATGTCCGAGACCGCACTGCCCGGGGCTTCAAGACGCGGAAGGGCATGTTCCGCACGTGTGGGGCAGCTTTAC
AAGGAGCAGCTGGCCAAGCTGATGGCTACGCTGAGGAACACGAACCCCAACTTTGTCCGCTGCATCATCCCCAAC
CACGAGAAGAAGGCCGGAAGCTGGACCCGCATCTCGTGCTGGACCAGCTGCGCTGCAACGGTGTCTCGAGGGC
ATCCGTATCTGCCGCCAGGGCTTCCCCAACAGGGTGGTCTTCCAGGAGTTTCGGCAGAGATATGAGATCCTGACT
CCAAACTCCATTCCCAAGGGTTTCATGGACGGGAAGCAGGCGTGCTGCTCATGATAAAAGCCCTGGAGCTCGAC
AGCAATCTGTACCGCATTGGCCAGAGCAAAGTCTTCTTCCGTGCCGGTGTGCTGGCCCACCTGGAGGAGGAGCGA
GACCTGAAGATCACCGACGTATCATAGGGTTCCAGGCCTGCTGCAGGGGCTACCTGGCCAGGAAAGCATTTGCC
AAGCGGCAGCAGCAGCTTACCGCCATGAAGGTCTCCAGCGGAAGTGCCTGACCTGAAGCTGCGGAAGTGG
CAGTGGTGGCGGCTCTTACCAAGGTCAAGCCGCTGCTGCAGGTGAGCCGGCAGGAGGAGGAGATGATGGCCAAG
GAGGAGGAGCTGGTGAAGGTGAGAGAGAAGCAGCTGGCTGCGGAGAACAGGCTCACGGAGATGGAGACGCTGCAG
TCTCAGCTCATGGCAGAGAAATTGCAGCTGCAGGAGCAGCTCCAGGCAGAAACCGAGCTGTGTGCCGAGGCTGAG
GAGCTCCGGGCCCCGCTGACCGCCAAGAAGCAGGAATTAGAAGAGATCTGCCATGACCTAGAGGCCAGGGTGGAG
GAGGAGGAGGAGCGCTGCCAGCACCTGCAGGCGGAGAAGAAGAAGATGCAGCAGAACATCCAGGAGCTTGAGGAG
CAGCTGGAGGAGGAGGAGAGCGCCCGCAGAAGCTGCAGCTGGAGAAGGTGACCACCGAGGCGAAGCTGAAAAAG
CTGGAGGAGGAGCAGATCATCTGGAGGACCAGAAGTGAAGCTGGCCAAGGAAAAGAACTGCTGGAAGACAGA
ATAGCTGAGTTACACCAACCTCACAGAAGAGGAGGAGAAATCTAAGAGCCTCGCCAAGCTCAAGAACAAGCAT
GAGGCAATGATCACTGACTTGGAAGAGCGCCTCCGCAGGGAGGAGAAGCAGCGACAGGAGCTGGAGAAGACCCGC
CGGAAGCTGGAGGGAGACTCCACAGACCTCAGCGACCAGATCGCCGAGCTCCAGGCCAGATCGCGGAGCTCAAG
ATGCAGCTGGCCAAGAAAGAGGAGGAGCTCCAGGCCGCCCTGGCCAGAGTGGAAGAGGAAGCTGCCAGAAGAAC
ATGGCCCTCAAGAAGATCCGGGAGCTGGAATCTCAGATCTCTGAAGTCCAGGAAGACCTGGAGTCTGAGCGTGCT
TCCAGGAATAAAGCTGAGAAGCAGAAACGGGACCTTGGGGAAGAGCTAGAGGCTCTGAAAACAGAGTTGGAGGAC
ACGCTGGATTCCACAGCTGCCAGCAGGAGCTCAGGTCAAAACGTGAGCAGGAGGTGAACATCCTGAAGAAGACC
CTGGAGGAGGAGGCCAAGACCCACGAGGCCAGATCCAGGAGATGAGGCAGAAGCACTCACAGGCCGTGGAGGAG

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FIGURE 6025B

CTGGCGGAGCAGCTGGAGCAGACGAAGCGGGTGAAAGCAAACCTCGAGAAGGCAAAGCAGACTCTGGAGAACGAG
CGGGGGGAGCTGGCCAACGAGGTGAAGGTGCTGCTGCAGGGCAAAGGGGACTCGGAGCACAAGCGCAAGAAAGTG
GAGGCGCAGCTGCAGGAGCTGCAGGTCAAGTTCAACGAGGGAGAGCGCGTGCGCACAGAGCTGGCCGACAAGGTC
ACCAAGCTGCAGGTGGAGCTGGACAACGTGACCGGGCTTCTCAGCCAGTCCGACAGCAAGTCCAGCAAGCTCACC
AAGGACTTCTCCGCGCTGGAGTCCCAGCTGCAGGACACTCAGGAGCTGCTGCAGGAGGAGAACC GGCGAGAAGCTG
AGCCTGAGCACC AAGCTCAAGCAGGTGGAGGACGAGAAGAAATTCCTTCCGGGAGCAGCTGGAGGAGGAGGAGGAG
GCCAAGCACAACCTGGAGAAGCAGATCGCCACCTCCATGCCAGGTGGCCGACATGAAAAAGAAGATGGAGGAC
AGTGTGGGGTGCCCTGGAAACTGCTGAGGAGGTGAAGAGGAAGCTCCAGAAGGACCTGGAGGGCCTGAGCCAGCGG
CACGAGGAGAAGGTGGCCGCCCTACGACAAGCTGGAGAAGACCAAGACGCGGCTGCAGCAGGAGCTGGACGACCTG
CTGGTGGACCTGGACCACCAGCGCCAGAGCGCTGCAACCTGGAGAAGAAGCAGAA GAAGTTTGACCAGCTCCTG
GCGGAGGAGAAGACCATCTCTGCCAAGTATGCAGAGGAGCGCGACCGGGCTGAGGCGGAGGCCCCGAGAGAAGGAG
ACCAAGGCTCTGTGCTGGCCCCGGGCCCTGGAGGAAGCCATGGAGCAGAAGGCGGAGCTGGAGCGGCTCAACAAG
CAGTTCGCGACGGAGATGGAGGACCTTATGAGCTCCAAGGATGATGTGGGCAAGAGTGTCCACGAGCTGGAGAAG
TCCAAGCGGGCCCTAGAGCAGCAGGTGGAGGAGATGAAGACGCAGCTGGAAGAGCTGGAGGACGAGCTGCAGGCC
ACCGAAGATGCCAAGCTGCGGTGGAGGTCAACCTGCAGGCCATGAAGGCCAGTTCGAGCGGGACCTGCAGGGC
CGGGACGAGCAGAGCGAGGAGAAGAAGAAGCAGCTGGTCAGACAGGTGCGGGAGATGGAGGCAGAGCTGGAGGAC
GAGAGGAAGCAGCGCTCGATGGCAGTGGCCGCCCGGAAGAAGCTGGAGATGGACCTGAAGGACCTGGAGGCGCAC
ATCGACTCGGCCAACAAGAACC GGGACGAAGCCATCAAACAGCTGCGGAAGCTGCAGGCCAGATGAAGGACTGC
ATGCGCGAGCTGGATGACACCCGCGCCTCTCGTGAGGAGATCCTGGCCCAGGCCAAGAGAACGAGAAGAAGCTG
AAGAGCATGGAGGCCGAGATGATCCAGTTGCAGGAGGAAGTGGCAGCCGCGGAGCGTGCCAAGCGCCAGGCCAG
CAGGAGCGGGATGAGCTGGCTGACGAGATCGCCAACAGCAGCGGCAAAGGAGCCCTGGCCTTAGAGGAGAAGCGG
CGTCTGGAGGCCCGCATCGCCAGCTGGAGGAGGAGCTGGAGGAGGAGCAGGGCAACACGGAGCTGATCAACGAC
CGGCTGAAGAAGGCCAACCTGCAGATCGACCAGATCAACACCGACCTGAACCTGGAGCGCAGCCACGCCCAGAAG
AACGAGAATGCTCGGCAGCAGCTGGAACGCCAGAACAAGGAGCTTAAGGTCAAGCTGCAGGAGATGGAGGGCACT
GTCAAGTCCAAGTACAAGGCCTCCATCACCGCCCTCGAGGCCAAGATTGCACAGCTGGAGGAGCAGCTGGACAAC
GAGACCAAGGAGCGCCAGGCAGCCTGCAAACAGGTGCGTCGGACCGAGAAGAAGCTGAAGGATGTGCTGCTGCAG
GTGGATGACGAGCGGAGGAACGCCGAGCAGTACAAGGACCAGGCCGACAAGGCATCTACCCGCTGAAGCAGCTC
AAGCGGCAGCTGGAGGAGGCCGAAGAGGAGGCCAGCGGGCCAACGCCTCCCGCCGGAAGTGCAGCGCGAGCTG
GAGGACGCCACTGAGACGGCCGATGCCATGAACCGGAAGTCAGCTCCCTAAAGAACAAGCTCAGGCGCGGGGAC
CTGCCGTTTGTGCTGCCCGCCGAATGGCCCGGAAGGCGCCGGGGATGGCTCCGACGAAGAGGTAGATGGCAAA
GCGGATGGGGCTGAGGCCAACCTGCCGAATAA

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FIGURE 6026

MAQQAADKYLVDKNFINNPLAQADWAAKKLVWVPSDKSGFEPASLKEEVGEEAIVELVENGKKVKVNKDDIQKM
NPPKFSKVEDMAELTCLNEASVLHNLKERYYSGLIYTYSGLFCVVINPYKNLPIYSEEIVEMYKGKKRHEMPPHI
YAITDTAYRSMMQDREDQSILCTGESGAGKTENTKKVIQYLAYVASSHKSCKDQGELERQLLQANPILEAFGNAK
TVKNDNSSRFKGKIFIRINFDVNGYIVGANIETYLLEKSRAIROAKEERTFHIFYLLSGAGEHLKTDLLLEPYNKY
RFLSNGHVTIPGQQDKDMFQETMEAMRIMGIPEEEQMGLLRVISGVLQLGNIIVFKKERNTDQASMPDNTAAQKVS
HLLGINVTDFTRGILTPRIKVGRDYVQKAQTKEQADFAIEALAKATYERMFRWLVLRLINKALDKTKRQGASFIGI
LDIAGFEIFDLNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIDLIEKPAGPPGIL
ALLDEECWFPKATDKSFVEKVMQEQTGHPKFQPKQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLNDNIATLL
HQSSDKFVSELWKDVDRIIGLDQVAGMSETALPGAFKTRKGMFRTVGQLYKEQLAKLMATLRNTNPNFVRCIIPN
HEKKAGKLDPHLVLDQLRCNGVLEGIIRICRQGFPNRVVFQEFRQRYEILTPNSIPKGFMDGKQACVLMIKALELD
SNLYRIGQSKVFFRAGVLAHLEEEERDLKITDVIIGFQACCRGYLARKAFARQQQLTAMKVLQRNCAAYLKLRNW
QWWRLF TKVKP LLQVSRQEEEMAKEEEELVKVREKQLAAENRLTEMETLQSQLMAEKLQLEQLQAETELCAEAE
ELRARLTAKKQEELEI CHDLEARVEEEEEERCQHLOAEKKMQQNIQEELEEQLEEEESARQKLQLEKVTTAKLKK
LEEEQIILEDQNCCLAKEKKLLEDRIAFTTNLTEEEESKSLAKLKNKHEAMITDLEERLRREEKQRQEELEKTR
RKLEGDSTDLSQIAELQAQIAELKMQLAKKEEELQAALARVEEEAAQKNMALKKIRELESQISELQEDLESERA
SRNKAQKQKRD LGEELEALKTELED TLDSTAAQQLRSKREQEVN ILKKTLEEEAKTHEAQIQEMRQKHSQAVEE
LAEQLEQTKRVKANLEKAKQTLENERGELANEVKVLLQKGKGDSEHKRKKVEAQLQELQVKFNEGERVTELADKV
TKLQVELDNVTGLLSQSDSKSSKLT KDFSALSQLQDTQELLQEEENRQKLSLSTKLQVEDEKNSFREQL EEEEE
AKHNLEKQIATLHAQVADMKKKMEDSVGCLETAEEVKRKLQKDLEGLSQRHEEKVAAYDKLEKTKTRLQQLDDL
LVDLDHQRQSACNLKKQKFDQLLAEKTI SAKYAEERDRAEAEAREKETKALSLARALEEAMEQKAELERLNK
QFRTEMEDLMSSKDDVGKSVHELEKSKRALEQQVEEMKTQLEEELEDELQATEDAKLRLEVN LQAMKAQFERDLQ
RDEQSEEKKQLVRQVREMEAELEDERKQORMAVAARKKLEMDLKDLEAHIDSANKNRDEAIKQLRKLQAQMKDC
MRELD DTRASREE ILAQAKENKKLKSMEAMIQLQEELAAAERAKRQAQQERDELADEIANSSGKALALEEKR
RLEARIAQLEEEEL EEEQGNTELINDRLKKANLQIDQINTDLNLSHAQKNENARQQLERQNKELVKLQEMEGT
VKSKYKASITALEAKIAQLEEQLDNETKERQAACKQVRRTEKKLKDVLQVDDERRNAEQYKDQADKASTRLKQL
KRQLEEAEEEAQRANASRRKLQRELEDATETADAMNREVSSLNKLRGDLFPVVPRRMARKGAGDGSDEEVDGK
ADGAEAKPAE

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FIGURE 6027

GAATTCGGCACGAGCTAACGCGGTCCCCGGCACGCACCATCTGTTGCCATCCCGGCCGGCCGAGGCCATTGCAGA
TTTTGGAAGATGGCAAAGTTCATGACACCCGTGATCCAGGACAACCCCTCAGGCTGGGGTCCCTGTGCGGTTCCC
GAGCAGTTTCGGGATATGCCCTACCAGCCGTTCAAGCAAAGGAGATCGGCTAGGAAAGGTTGCAGACTGGACAGGA
GCCACATACCAAGATAAGAGGTACACAAATAAGTACTCCTCTCAGTTTGGTGGTGAAGTCAATATGCTTATTTT
CATGAGGAGGATGAAAGTAGCTTCCAGCTGGTGGATACAGCGCGCACACAGAAGACGGCCTACCAGCGGAATCGA
ATGAGATTTGCCCAGAGGAACCTCCGCAGAGACAAAGATCGTCCGGAACATGTTGCAGTTCAACCTGCAGATCCTG
CCTAAGAGTGCCAAACAGAAAGAGAGAGAACGCATTTCGACTGCAGAAAAAGTTCCAGAAACAATTTGGGGTTAGG
CAGAAATGGGATCAGAAATCACAGAAACCCCGAGACTCTTCAGTTGAAGTTCGTAGTGATTGGGAAGTGAAAGAG
GAAATGGATTTTCTCAGTTGATGAAGATGCGCTACTTGGAAGTATCAGAGCCACAGGACATTGAGTGTGTGGG
GCCCTAGAATACTACGACAAAGCCTTTGACCGCATCACACGAGGAGTGAGAAAGCCACTGCGGAGCATCAAGCGC
ATCTTCCACACTGTCACCACCACAGACGACCCGTGCATCCGCAAGCTGGCAAAAACTCAGGGGAATGTGTTTGGC
ACTGATGCCATCCTGGCCACGCTGATGAGCTGTACCCGCTCAGTGTATTCTGGGATATTGTCGTCCAGAGAGTT
GGGTCCAAACTCTTCTTTGACAAGAGAGACAACCTCTGACTTTGACCTCCTGACAGTGAGTGAGACTGCCAATGAG
CCCCCTCAAGATGAAGGTAATTCCTTCAATTCACCCCGCAACCTGGCCATGGAGGCAACCTACATCAACCACAAT
TTCTCCCAGCAGTGCTTGAGAATGGGGAAGGAAAGATACAACCTCCCAACCCAAACCCGTTTGTGGAGGACGAC
ATGGATAAGAATGAAATCGCCTCTGTTGCGTACCGTTACCGCAGGTGGAAGCTTGGAGATGATATTGACCTTATT
GTCCGTTGTGAGCACGATGGCGTCATGACTGGAGCCAACGGGGAAGTGTCTTCATCAACATCAAGACACTCAAT
GAGTGGGATTCCAGGCACTGTAATGGCGTTGACTGGCGTCAGAAGCTGGACTCTCAGCGAGGGGCTGTCATTGCC
ACGGAGCTGAAGAACAACAGCTACAAGTTGGCCCGGTGGACCTGCTGTGCTTTGCTGGCTGGATCTGAGTACCTC
AAGCTTGGTTATGTGTCTCGGTACCACGTGAAAGACTCCTCACGCCACGTCACTCCTAGGCACCCAGCAGTTCAAG
CCTAATGAGTTTGCCAGCCAGATCAACCTGAGCGTGGAAGATGCCTGGGGCATTTTACGCTGCGTCATTGACATC
TGCATGAAGCTGGAGGAGGGCAAATACCTCATCTCAAGGACCCCAACAAGCAGGTCATCCGTGTCTACAGCCTC
CCTGATGGCACCTTCAGCTCTGATGAAGATGAGGAGGAAGAGGAGGAGGAAGAAGAGGAAGAAGAAGAGGAAGAA
ACTTAAACCAGTGATGTGGAGCTGGAGTTTGTCTTCCACCGAGACTACGAGGGCCTTTGATGCTTAGTGGAATG
TGTGTCTAACTTGCTCTCTGACATTTAGCAGATGAAATAAATATATATCTGTTTAGTCTTTAAAAA

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FIGURE 6028

MAKFMTFVIQDNPSGWGPCAVPEQFRDMPYQPFSGDRLGKVADWTGATYQDKRYTNKYSSQFGGGSQYAYFHEE
DESSFQLVDTARTQKTAYQRNRMRFQQRNLRRDKDRRNMLQFNLOILPKSAKQKERERIRLQKKFQKQFGVRQKW
DQKSQKPRDSSVEVRSDWEVKEEMDFPQLMKMRYLEVSEPQDIECCGALEYDYDKAFDRITRSEKPLRSIKRIFH
TVTTTDDPVIRKLAKTQGNVFATDAILATLMSCSTRSVYSWDIVVQRVGSKLFFDKRDNSDFDLLTVSETANEPPQ
DEGNSFNSPRNLA MEATYINHNFSQQCLRMGKERYNFPNPNPFVEDDMDKNEIASVAYRYRRWKLGDDIDLIVRC
EHDGVMTGANGEVSFINIKTLNEWDSRHCNGVDWRQKLDSQRGAVIATELKNN SYKLARWTCCALLAGSEY LKLG
YVSR YHVKDSSRHVILGTQQFKPNEFASQINLSVENAWGILRCVIDICMKLEEGKYLILKDPNKQVIRVYSLPDG
TFSSDEDEEEEEEEEEEEEEET

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FIGURE 6029

GGGGGGCGGGAGGAGGGGACAGCTGCGGGCGCGGGGAGGGGGCGCCGCGCGGGGGCCATGGCGGAGCCAGGA
AGCCGGGAGTCCGAGACCCGGGCCCCGAGCCCCGAGTGTGCGCCGCCATGGCTTCGCCGCGAGCTCTGCCGCGCGCTG
GTGTGCGCGCAATGGGTGGCGGAGGCGCTGCGGGCCCCGCGCGCTGGGCAGCCTCTGCAGCTGCTGGACGCCTCC
TGGTACCTGCCGAAGCTGGGGCGCGACGCGCGACGCGAGTTTCGAGGAGCGCCACATCCCGGGCGCCGCTTTCTTC
GACATCGACCAGTGCAGCGACCGCACCTCGCCCTACGACCACATGCTGCCCGGGGCGGAGCATTTCGCGGAGTAC
GCAGGCCGCCCTGGGCGTGGGCGCGGCCACCCACGTCGTGATCTACGACGCCAGCGACCAGGGCCTCTACTCCGCC
CCGCGCGTCTGGTGGATGTTCCGCGCCTTCGGCCACCACGCCGTGTCACTGCTTGATGGCGGCCTCCGCCACTGG
CTGCGCCAGAACCTCCCGCTCAGCTCCGGCAAGAGCCAACTGCTCCCGCCGAGTTCGCGCTCAGCTCGACCCC
GCCTTCATCAAGACCTACGAGGACATCAAGGAGAACCTGGAATCCCGGCGCTTCAGGTGGTGGACTCCCGAGCC
ACTGGCAGGTTCCGCGGCACCGAGCCCCGAGCCCCGAGACGGCATTGAACCTGGCCACATCCCAGGTACCGTGAAC
ATCCCCCTTCACAGACTTCCTGAGCCAGGAGGGGCTGGAGAAGAGCCCTGAGGAGATCCGCCATCTGTTCCAGGAG
AAGAAAGTGGACCTGTCTAAGCCACTGGTGGCCACGTGTGGCTCTGGCGTCACAGCCTGCCACGTGGCACTAGGG
GCCTACCTCTGCGGCAAGCCAGACGTGCCCATCTACGATGGCTCCTGGGTGGAGTGGTACATGCGCGCCCCGGCCC
GAGGATGTCTCTCAGAGGGCCGGGGGAAGACCCACTGAAGCTGGGCAGGACACAGGCGAGCTCAGGTGATGCCG
GCCACCAGCAATGCCTGGCTGGTAGCTCCGCTTCTGCTTTCACCAAGAGAGTGTTTCTTCACTCAACTCAGGTG
GCATTTGGGGTGACATCTCAAAGGCCAGGAATTCGTTGACTTGTTGGCTGCCAGTAGGGGCGGGAGGAAAGGCG
GAGGCGAGCCCTGGAGGAGGGAGGCCACAACCTCCGAGCTGCCACCTGGTGCTGAGCTGGGGCCCCGCCTCCTTT
CTGTTTTATTTTGGAGGAAATAAAATAACCAAGTGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6030

MASPQLCRA LVSAQWVAEALRAPRAGQFLQLLDASWYLPKLGRDARREFEERHIPGAFFDIDQCSDRTSPYDHM
LPGA EHFAEYAGRLGVGAATHVVIYDASDQGLYSAPRVWWMFRAFGHHAVSLDGG LRHWLRQNLP LSSGKSQPA
PAEFRAQLDPAFIKTYEDIKENLESRRFQVVDSRATGRFRGTEPEPRDGI EPGHIPGT VNIPFTDFLSQEGLEKS
PEEIRHLFQEKKVDLSKPLVATCGSGVTACHVALGAYLCGKPDVP IYDGSWVEWYMRARPEDVISEGRGKTH

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FIGURE 6031

GCGACTCTCCCGGGCTGCCAGCCGGGACGCGCGGCCGCCGCTGCAGACGACGAGTCCGCCCTCGTCCCGCGC
CCCCGGGGCTCGCGGAGCCAGGTCTCCACCTCTGGGCAGGAGAGTTGCCGACCACCTCGGGGGTGCTTTCTCTGC
GCTTGAACATCTATAGCTGCTTCTGAGGGGCTGGGAGCCGGGCCCCCTGGGAGAGACGAGCCATGAACCCCCACA
GCCTCTGCATTGTTGGGGACCTCACCTTAGGAGAGTGCCATTTACAGCTTCCGCCAGGGCAAAGGAGCTGAGCAGCC
ATCCCAAGCCCAGCCCACCTCCCTCCCCGGCCCCCTGGTAGGCATGGACTAGCAGCTGTGAGCAGCCAGAGCTGA
TGCCCCGGCCCCAGGGGGGCAGAGGCGCCGCCACCATGAGCCTGGGCAAGCTCTCGCCTGTGGGCTGGGTGTCCA
GTTACAGGGAAAGAGGCGGCTGACTGCAGACATGATCAGCCACCCACTCGGGGACTTCCGCCACACCATGCATG
TGGGCCGTGGCGGGGATGTCTTCGGGGACACGTCCCTTCCTCAGCAACCACGGTGGCAGCTCCGGGAGCACCCATC
GCTCACCCCGCAGCTTCCTGGCCAAGAAGCTGCAGCTGGTGCAGGAGGGTGGGGGCGCCCCCGGAGGATGGCAT
CTCCCCCTGCACCCTCCCCGGCTCCACCGGCCATCTCCCCCATCATCAAGAACGCCATCTCCCTGCCCCAGCTCA
ACCAGGCCGCTACGACAGCCTCGTGGTTGGCAAGCTCAGCTTCGACAGCAGCCCCACAGCTCCACGGACGGCC
ACTCCAGCTACGGCCTGGACTCTGGGTTCTGCACCATCTCCCGCCTGCCCCGCTCGGAAAAGCCGCATGACCGAG
ACGGGGATGGTTTCCTTCCCCCTTGAGCCCGGGCTTCGCCGCTCTGACTCTCTCTTGTCTTCCGCCTGGACCTCG
ACCTTGGGCCCTCACTCCTCAGCGAGCTGCTAGGGGTCATGAGCCTCCAGAAGCCCCCTGCAGCTGAGACTCCAG
CCCCGCTGCAAACCCCCCAGCCCCCTACTGCAAACCCACGGGTCTTGCTGCAAACCCCCCAGCCACTACTGCAA
ACCCCCCAGCGCTGCTGCAAACCCCTCAGCACCTGCCGCAACCCCCACGGGTCTGCTGCAAATCCCCCAGCCC
CTGCCGCAAGCTCCACACCCCATGGACACTGTCCCAATGGGGTAACAGCTGGGTGGGGCCAGTGGCTGAGGTGA
AGTCCAGCCCAGTGGGAGGGGGTCCCCGAGGACCTGCTGGCCCTGCCCTCGGCAGGCACTGGGGAGCAGGCTGGG
ATGGCGGCCACCACTACCCAGAGATGGATGCGCGGCAGGAGCGGGTGGAGGTGCTGCCCCAAGCCCGGGCCTCCT
GGGAGAGCCTGGACGAAGAGTGGAGGGCGCCCCAGGCAGGCAGCAGGACCCCAAGTGGCCAGCACAGTGAAGCAA
ACACCTTTGAATTTGCGGATGCTGAGGAGGATGATGAGGTCAAGGTGTGAGGGGCTGGGGCACGGTCCCAGGGCC
CCACCTAGGTGCAGAGCCGGCCCCCTACCTAACAGCTGGTTCTTACCAGACCGGAGAGGGGAGAAGTCATGTTGC
CCCTAAACCCCTCCCCACCTCTGCAGGACAGACATGGGAGGGAGGACAGGGAAGGCCAGGCTTGCTCTGGGACTT
TTATGCTCCAGAGGGCCTGCCAACTGACCACCTCCCCGACTGCCACTCTGGACCTAATAGCTGTTCTTAGG
CCCCACTCCATGCCACCCCCACCAGCTGGAGGACCCAGCCTCACAGTGTGTCTTTGTGCCAGACCAAGCGGGCC
GTGGGGGGTGGGGGGCAGGGAGTGTACCACACAGGGCCATTGTCTACCTCCCAAAGGGACCGCCTGCCCCCAGC
TCATCCCAGAGCGTCCCTGCTGCAACCCTGACAGCCGTCTCCAGGCCGCTTCCCCAACATCCCCGCCCCAGCCT
CCCTCTTACCCAGAAAGGTACGGTATGACCTCCCGGGAGGAATCCCACCTGCCTGTATACCCAGACTTGCT
CTGGGGCCTGATTAAATAAGGCTGTTTTGAT

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GGGGGCCGGTGGCGGATGAGGACCCGCGATGGAGCCGGAGACTCTGGAGGCGCGAATCAATAGAGGCCACGAACCC
 CTGAACAAGGAGCTCGACTGGGCCAGCATCAACGGCTTCTGCGAGCAGCTCAACGAGGACTTTGAGGGGCTTCCA
 CTCGCCACCCGGCTGCTGGCCCCACAAGATCCAGTCCCCACAGGAGTGGGAGGCGATCCAGGCCTTGACGGTGCTG
 GAAACATGCATGAAGAGCTGCGGCAAGCGGTTCCACGACGAAGTGGGCAAGTTCGCTTTTCTCAACGAGCTCATC
 AAGGTCGTGTCTCCCAAGTATCTGGGCTCTCGGACATCGGAGAAGGTGAAGAACAAGATCTTGAGACTCCTCTAC
 AGCTGGACAGTGGGCCTGCCCGAGGAGGTGAAAATCGCAGAGGCCACCAGATGCTAAAGAAGCAGGGGATTGTA
 AAGTCCGACCCCAAGCTTCCAGATGACACTACCTTTCCCTTCTCTCCACGGCCGAAGAATGTGATCTTTGAA
 GATGAGGAGAAAAATCCAAGATGCTGGCCCGCTGCTGAAGAGCTCCCATCCCGAAGACCTCCGCGCAGCCAATAAG
 CTCATCAAAGAGATGGTGCAGGAGGACCAGAAGCGGATGGAGAAGATCTCGAAGAGGGTGAATGCCATCGAGGAG
 GTGAACAACAATGTGAAACTGCTCACGGAGATGGTGATGAGCCACAGCCAGGGCGGCGCAGCAGCTGGCAGCAGC
 GAGGACCTCATGAAGGAACTGTACCAGCGCTGTGAGCGGATGCGGCCACGCTCTTCCGACTGGCGAGTGACACA
 GAGGACAATGATGAGGCCTTAGCGGAGATCTGTCAGGCCAATGACAACCTCACCCAGGTGATCAACCTGTATAAG
 CAGCTGGTGC GG GTGAGGAGGTCAACGGTGATGCCACAGCCGGCTCCATCCCTGGGAGCACCTCGGCCCTGCTG
 GATCTCTCAGGCCTGGATCTCCCGCTGCGGGCACCACCTACCCAGCTATGCCACCCGCCCTGGCGAGCAGGCC
 AGCCCTGAGCAGCCAGTGCCTCAGTTTCCCTGCTTGACGACGAGCTCATGTCTCTGGGCCTCAGTGACCCACA
 CCCCCTTCAGGCCCCAAGCCTGGATGGTACCGGATGGAACAGCTTCCAGTCGTGCGATGCCACTGAGCCCCCAGCC
 CCTGCTCTGGCCAGGCCCCCAGTATGGAAGCCGACCCCCAGCGCAGACATCCCTGCCAGCAAGCAGCGGTCTG
 GACGACCTAGACCTCCTGGGGAAGACCCTCCTGCAGCAGTCGCTGCCCCGGAATCCAGCAAGTGCGGTGGGAG
 AAGCAGCAGCCAACCCCCCGGCTCACACTCCGGGACCTGCAGAATAAGAGCAGCAGCTGCAGCTCCCCAGCTCC
 AGCGCCACCAGCCTTCTCCACACCGTGTCCCCAGAGCCCCCAGGCCTCCGCAGCAGCCCGTACCAACCGAGCTC
 TCACTGGCCAGCATCACTGTGCCCTGGAGTCCATCAAACCCAGCAACATCCTGCCCGTGACTGTGTATGACCAG
 CACGGCTTCCGCATCCTCTTCCATTTTGCCCGGGACCCACTGCCAGGGCGCTCCGACGTGCTGGTGGTGGTGGTT
 TCCATGCTGAGCACCGCCCCCAGCCCATCCGCAACATCGTGTCCAGTCAGCTGTCCCAAGGTTATGAAGGTG
 AAGCTGCAGCCACCCTCGGGCAGGAGCTGCCAGCTTTTAACCCCATCGTCCACCCCTCAGCAATCACCCAGGTG
 CTGCTGCTTGCCAACCCCCAGAAGGAGAAGGTTGCGCTCCGCTACAAGCTCACCTTACCATGGGTGACCAGACC
 TACAACGAGATGGGGGATGTGGACCAGTTCCCCCACCTGAAACCTGGGGTAGCCTCTAGAACAGAGGGGCTGGG
 GAGAGGAAGGGGCAGAGGGACCGGTCACTGTCCAGCCTGGAGGGAGGCATTGGTGGCCAAGGACACCCTTTGTTG
 CCCATGGCCATTACCCCCAGGCCTGGTGCTTCTCCCCACACCCTGTAGGCCTCAAGTGACTCTTCCCCCTCCT
 GCTCCGGCCCCCGCCCTGCTGAGCCAAACCCAGTAGGAGGCTGGGCCTGGGTTTGTGCCGCTGGGGTCTCCATCA
 CCGGGACCTGGAGAGGGAGGGGCTGTGTAGCCTTGGAAGAACTGGGTGATGGGGAGGAAGCACAGCTGTTGGG
 AAGGGCCAGGACCTCAGGCCCAGCCCCAACCCAGCTGGGGTGGGGTCTTCCCCACCTGTCTCTTATGCCTTATG
 GGAAGGCCAGCCATAACTCGGGGGCCATGCTGGAGCTGGGGACCAGCTTAGGCCTCCTCCATAGGAACCCAGTG
 ACTGGGGGGTGACGCCTACACCCCGAGCTATTTGACTCTGGTGTGTGTTGACTCTGCTTTTCTTCCGATTG
 GCCCTGTGGTCAACGCTCAGGGGGCAGGCTGGGGGAACCTACCTGGCCCGTACTCCTGGGGGTTCCCTTTG
 CCATTGGGCCCCCTGAGGGAGCTGTGGGGGCTCAAGGGTAATGCCAGAGGCCCCATGGCCCCAGCGAGGGGCTGTG
 GCAACCTAGAGTTCTCGGTGTGTCTCCTTCACTTATGGCCTCTGCTGGGCCTCCTATGGGTGTCTTACGCTGTG
 TCCATCCATCTGTCCGTGGTCAGAAGTGGGGTCAGTGTGTGAGTGAGAGCAGGAGTATTTATGAAAATAAAACGT
 CGTTTTTCTGGAAAAA

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FIGURE 6033

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQEW EAIQALT VLETCMK
SCGKRFHDEVGKFRFLNELIKVVSPKYLGSRTSEKVKNKILELLYSWTVGLPEEVKIAEAYQMLKKQGIVKSDPK
LPDDTTTFPLPPPRPKNVIFEDEEKS KMLARLLKSSHPEDLRAANKLIKEMVQEDQKRMEKISKRVNAIEEVNNNV
KLLTEMVM SHSQGGAAAGSSEDLMKELYQRCERMRTLFRLASDTEDNDEALAEILQANDNLTOVINLYKQLVRG
EEVNGDATAGSIPGSTSALLDLSGLDLPPAGTTY PAMPTRPGEQASPEQPSASVSLDDELMSLGLSDPTPPSGP
SLDGTGWNSFQSSDATEPPAPALAQAPSME SRPPAQTSLPASSGLDDLDLLGKTLLQQSLPPESQQVRWEKQOPT
PRLTLRDLQNKSSSCSSPSSSATSLLHTVSPEPPRPPQQPVPTSLASITVPLESIKPSNLPVTYDQHGFR I
LFHFARDPLPGRSDVLVVVVSMLSTAPQPIRNIVFQSAVPKVMKVKLQPPSGTELP AFNP IVHPSAITQVLLLAN
PQKEKVR LRYKLTF TMGDQTYNEMGDVDQFPPPETWGS L

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[illegible]

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FIGURE 6035

MAESFKELDPDSSMGKALEMSCAIONQLARILAEFEMTLERDVLQPLSRLSEEELPAILKHKKSLQKLVSDWNTL
KSRLSQATKNSGSSQGLGGSPGSHSHTTMANKVETLKEEEEELKRKVEQCRDEYLADLYHFVTKEDSYANYFIRL
LEIQADYHRRSLSSLDALAELENHGOADHSPSMTATHFPRVYGVSLATHLQELGREIALPIEACVMMLLSEGM
KEEGLFRLAAGASVLKRLKQTMASDPHSLEEFCSDPHAVAGALKSYLRELPEPLMTFDLYDDWMRAASLKEPGAR
LQALQEVCSRLPPENLSNRYLMKFLARLAEEQEVNKMTPSNIAIVLGPNLLWPPEKEGDQAQLDAASVSSIQVV
GVVEALIQSADTLFPGDINFNVSGLESAVTLQDTVSDRLASEELPSTAVPTPATTAPAPAPAPAPAPALASAAT
KERTESEVPPRPASPKVTRSPPEAAPVEDMARRTKRPAPARPTMPPQVSGSRSSPPAPPLPPGSGSPGTPQAL
PRLVGSSSLRAPTVPPLPPTPPQFARRQSRSPASPSASPGPASPSVLSNPAQVDLGAATAEGGAPEAISG
VPTPPAIPPQPRPRSLASETN

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FIGURE 6036

GGCACGAGGGCCGTGCCCCGCGGAGAGAGCGCGGCGCGGGAGGCCGGCGGCCGGCCGGCTGCATCGCGCGCTGCGA
GAGGCTGCGCGGAGCGGCCCTGCGCGACGTGCTGGGCCGGGCGCAGGGGGTCCTGTTTCGACTGTGACGGGGTGCT
GTGGAACGGCGAGCGCGCCGTGCCGGGCGCCCCGGAGCTGCTGGAGCGGCTGGCGCGGGCCGGCAAGGCGGCTCT
GTTTGTGAGCAACAACAGCCGGCGCGCGCGGCCCGAGCTGGCCCTGCGCTTCGCGCGCCTCGGCTTCGGGGGGCT
GCGCGCCGAGCAGCTCTTCAGCTCCGCGCTGTGCGCCGCGCGCCTGCTGCGCCAGCGCCTGCCCGGGGCTCCGGA
CGCGCCGGGCGCCGTGTTTCGTGCTGGGCGGCGAGGGGCTGCGCGCCGAGCTGCGCGCCGCGGGGCTGCGCCTGGC
CGGGGACCCGAGCGCGGGGGACGGCGCGGCCCGCGCGTGCAGCGCCGTGCTTGTGGGCTACGACGAGCACTTCTC
CTTCGCCAAGCTGAGGGAGGCGTGCGCGCACCTGCGCGACCCGAGTGCCCTACTCGTGGCCACCGACCGTGACCC
ATGGCACCCGCTGAGCGACGGCAGCCGGACCCCTGGCACCGGGAGCCTGGCCGCTGCAGTGGAGACAGCCTCGGG
ACGCCAGGCCCTGGTGGTGGGCAAGCCCAGCCCCCTACATGTTTCGAGTGCATCACGGAGAAGCTTCAGCATCGACCC
CGCACGCAAGCTTATGGTGGGTGACCGCCTGGAGACCGACATCCTCTTTGGCCACCGCTGCGGCATGACCACTGT
GCTCACGCTCACAGGAGTCTCCCGCTAGAAGAGGGCCAGGCCTACCTAGCGGCCGGCCAGCACGACCTCGTGCC
CCATTACTATGTGGAGAGCATCGCAGACTTGACAGAGGGGTTGGAGGACTTGAGCCCACTGCACCTGCAGCCACAG
GCCCACCCCTCCCCACTCCCTGATCCCGTAGGTGGAGGCGATGGGTACGAGCCATGTTAAGCACAAACGGCTCC
TTGGTCCAGTTCGACCCGGGGTGGGGCTGGGACCCGGGGAAGGTTTGAGGGCCCTTGCAACCCCTCCCAGCAG
TGGCTGGGCACTCTTGCTGCCCCAGAAGCTGGTCCCTATGGATTTCATCTTGGCCTGACCCAGCCAGGTGGCCT
TATTTCTTCCCTGTCACCTCCCTCCTTGAAATCTGGGCCCTGGTGCCTGCTGAAGATTCCCTCTATCCCTGAGT
ACTTAGTCTTCTCCCCCTTCCCTGGGGCTTCTAGAGCTCTCTCTGCCCTCAGGTCCTGGCCCTTGGGTCCTTGT
CAACCAGAGGTCTAGGGAACCACAACCCCTTATTGTCTTGGGTGGACCAATCCAAAGGCTAAGTGATAGTGACTCA
TCAATGTTGGGTCCTGTGGGGTACCAAGTTTAGGTTTCCTAAGTAATAGTGACCCCTTCACGTCCTGGAGCCCGAGT
GGACCAATCGGAAGCCTAAGTGACGATGACCCCTCGCATGTCCTAGGTCCCTGGGTGGACCCATCAGGACCCCAAG
TGATAGTGACCCAGTGGTCTTTTAGATCCTCAGTAGAACAGTCCAGAAGCCTGAGAGACAGTGGCCCTTGATAA
TCTGGGTCTCACGGGACCAGCTAGGGGTCCAGGTTTCAGTCAGTAAATAAGAGTGGTCCACGTCCTAAAGACACC
TCTCCTTTACAAAGACTTGTGATGCTCTGGGGCTTCTGTGGCCAAGCCCCACCCTTTCCTGGTCATGGTACCCGT
ACAGCGTTGATGGCCACAGCTCGAAGGGGGGCTTTCGTGTCCCCCTGTGCGGTCAGTGTTTTTCAGTACCACCTCT
CTCCCGTGCCCACTTGGCTATTACTTATTTATTTATTGTGTGCCAGTGATGGTGGGTGGGGCTGGGCCTTCCC
CGCCACCTCCACCCCTGTTGTGACCTGTCTTCCGTACTTAATAAAGTGCGCGTGGGAGTGTTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6037

MARCERLRGAALRDVLGRAQGVLFDCDGVWNGERAVPGAPELLERLARAGKAALFVSNNRRARPELALRFARL
GFGGLRAEQLFSSALCAARLLRQRLPGPPDAPGAVFVLGGEGRLAELRAAGLRLAGDPSAGDGAAPRVRAVLVGY
DEHFSFAKLREACAHLRDPECLLVATDRDPWHPLSDGSRTPGTGLAAAVETASGRQALVVGKPSPYMFECITEN
FSIDPARTLMVGDRLTDILFGHRCGMITTVLTLTGVSRLAEAQAYLAAGQHDLPVPHYYVESIADLTEGLED

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FIGURE 6038

ATCTCTCTCGGGTGGAGTCCTTCTGACAGCTGGTGCGCCTGCCCCGGGAACATCCTCCTGGACTCAATCATGGCCT
GTGGTCTGGTCGCCAGCAACCTGAATCTCAAACCTGGAGAGTGCTTCGAGTGCGAGGCGAGGTGGCTCCTGACG
CTAAGAGCTTCGTGCTGAACCTGGGCAAAGACAGCAACAACCTGTGCCTGCACTTCAACCCTCGCTTCAACGCCC
ACGGCGACGCCAACACCATCGTGTGCAACAGCAAGGACGGCGGGGCCTGGGGGACCGAGCAGCGGGAGGCTGTCT
TTCCCTTCCAGCCTGGAAGTGTTCAGAGGTGTGCATCACCTTCGACCAGGCCAACCTGACCGTCAAGCTGCCAG
ATGGATACGAATTCAAGTTCCCCAACCGCCTCAACCTGGAGGCCATCAACTACATGGCAGCTGACGGTGACTTCA
AGATCAAATGTGTGGCCTTTGACTGAAATCAGCCAGCCCATGGCCCCCAATAAAGGCAGCTGCCTCTGCTCCCCT
G

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FIGURE 6039

MACGLVASNLNLKPGECLRVGEVAPDAKSFVLNLGKDSNNLCLHFNPRFNAHGDANTIVCNSKDGGAWGTEQRE
AVFPFQPGSVAEVCITFDQANLTVKLDPGYEFKFPNRLNLEAINYMAADGDFKIKCVAFD

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FIGURE 6040

GGGCGGATGGAAGGGGCCGGGGCAGCGTCGGGGAAAGGAAGGGCCGGAGGCGCGGGCGGGCGGGCCGAGAGGGG
CGGCGGCGGGCGGGCGGGCGGGGTTCCCCGCGCCGCGGAGCCCCGGCCCCGAGAGCCGCGTCCACGTTCCCTGCCTCCT
GCTCCCGCCGCCCTGGGGCGCCGCCATGACGCCCCGATCTGCTCAACTTCAAGAAGGGATGGATGTCGATCTTGGA
CGAGCCTGGAGAGCCTCCCTCCCCCTCGCTCACCACCACCTCTACTTCGCAGTGGAAGAAACATTGGTTTGTGCT
GACAGATTCAAGTCTCAAATATTACAGAGACTCCACTGCTGAGGAGGCAGATGAGCTGGATGGTGAGATCGACCT
GCGTTCCTGCACGGATGTCACTGAGTACGCGGTGCAGCGCAACTATGGCTTCCAGATCCACACCAAGGATGCTGT
CTATACCTTGTGCGCCATGACCTCAGGCATCCGGCGGAAGTGGATCGAGGCTCTGAGAAAGACCGTACGTCCAAC
TTCAGCCCCAGATGTCACCAAGCTCTCGGACTCTAACAAGGAGAACGCGCTGCACAGCTACAGCACCCAGAAGGG
CCCCCTGAAGGCAGGGGAGCAGCGGGCGGGCTCTGAGGTTCATCAGCCGGGGTGGCCCTCGGAAGGCGGACGGGCA
GCGTCAGGCCCTTGACTACGTGGAGCTCTCGCCGCTGACCCAGGCTTCCCCGAGCGGGGCCGACCCAGCCCG
CACTCCTGACCGCCTGGCCAAGCAGGAGGAGCTGGAGCGGGACCTGGCCCAGCGCTCCGAGGAGCGGCGCAAGTG
GTTTGAGGCCACAGACAGCAGGACCCAGAGGTGCTGCTGGTGAGGGGCCGCGCCGGGGCCTGGGTGCCCCCT
GACTGAGGACCAGCAAAACCGGCTTAGTGAGGAGATCGAGAAGAAGTGGCAGGAGCTGGAGAAGCTGCCCTGCG
GGAGAATAAGCGGGTGCCCCCTACTGCCCTGCTCAACCAAAGCCGCGGAGAGCGCCGAGGGCCCCCAAGTGACGG
CCACGAGGCACTGGAGAAGGAGGTTTCAAGGCTCTTCGGGGCCAGCTGGAGGCGTGCGCTCTCAAGGGGAGGCTCC
TCAGAGTGCATGAGATCCCAGGAGGATGGCCACATCCCCCGGGCTACATCTCACAGGAGGCATGTGAGCGCAG
CCTGGCAGAGATGGAGTCTCGCACCAGCAGGTGATGGAGGAGCTGCAGCGGCACCACGAGCGGGAGCTGCAGCG
CCTGCAGCAGGAGAAGGAGTGGCTCCTGGCTGAGGAGACGGCAGCCACGGCCTCAGCCATTGAAGCCATGAAGAA
GGCCTACCAGGAAGAGCTGAGCCGAGAGCTGAGCAAAACACGGAGTCTCCAGCAGGGCCCCGGATGGCCTCCGGAA
GCAGCACCAGTCAGATGTGGAGGCACTGAAGCGAGAGCTGCAGGTGCTATCGGAGCAGTACTCGCAGAAGTGCCT
GGAGATTGGGGCACTCATGCGGCAGGCTGAGGAGCGCGAGCACACGCTGCGCCGCTGCCAGCAGGAGGGCCAGGA
GCTGCTGCGCCACAACCAGGAGCTGCATGGCCGCTGTCTAGAGGAGATAGACCAGCTGCGCGGCTTCATTGCCTC
GCAGGGCATGGGCAATGGCTGCGGGCGCAGCAACGAGCGGAGTTCTGCGAGCTAGAGGTGCTGCTTCGCGTAAA
AGAAAACGAACCTCCAGTACCTAAAGAAGGAGGTGCAGTGCCTCCGGGACGAGCTCCAGATGATGCAGAAGGACAA
GCGCTTCACCTCGGGAAGTACCAGGACGTCTATGTGGAGCTGAGCCACATCAAGACACGGTCTGAGCGGGAGAT
CGAGCAGCTGAAGGAGCACCTGCGTCTTGCCATGGCCGCCCTCCAGGAGAAGGAGTCGATGCGCAACAGCCTGGC
TGAGTAGAGGTCCCGCCAGCTGCAGACCCTCCAGGCTGGAGGACCAGCCGCCCTCCTTCCCTCCTGGATGGAAG
TAAAAAGCCAAGCTTTCTCCCCACCCTCTGTGGGCCACACGTGCACCTTGACCCACCACACACACACACACAC
ACACACACACACACAGACACACAGACACATACGCACACACGTGCACACATGTACACACGGATACACACACACACA
CACACACTGCATATCTGAGCGCGCCCTCGCACTGGGTCTCACCTTGACCTTCTTCAGGATTTTATATGTGAAG
AGATTTTTATATAGATTTTTTTTCTTTTTTTTCCAAAACACTTTATACTTTAAAAAAGCAATTCC
TGGTGGCTGTGTGCTCCAACCTGGTCCCCCTCTGTCTCCAGCCACCCTCTGCTTGGGCTTCTGAGCTGGTGGC
CCTGGCCAGAGGTCTGGCGGAGGCCAGGCAGCAGCCATGGCGGGGTGTCTCTACAGGGGAGAGGCGGGAGCCT
GCCACCCTCTTCTGCCCTACCTCCTACTAACAACCTTCTGCCCCATTGGACCCGTACCATGGGGCTCAGGACAG
AGGGAGCTAGCAGCTGGCCTCCATGGCCCCACAGCCTCCTTCGAGGCTGTGCTGGGTGCAGAACCGCCAGAGCCA
CCCAAAGGTGTTTCTTCTGCTCCCTGAACCTCTTAACCTAATAAAACGTTCCAGCAGCT

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FIGURE 6041

MTPDLLNFKKGWMSILDEPGEPSPSLTTTSTSQWKKHWFVLTDSCLKYYRDSTAEAEDELGEIDLRSDTDVTE
YAVQRNYGFQIHTKDAVYTLSAMTSGIRRNWIEALRKTVRPTSAPDVTKLSDSNKENALHSYSTQKGPLKAGEQR
AGSEVISRGGPRKADGQRQALDYVELSPLTQASPQRARTPARTPDRLAKQEELERDLAQRSEERRKWFATDSRT
PEVPAGEGPRRGLGAPLTEDQQNRLSEEIEKKWQELEKLPLRENKRVPLTALLNQSRGERRGPPSDGHEALEKEV
QALRAQLEAWRLQGEAPQSALRSQEDGHIPPGYISQEACERSLAEMESSHQVMEELQRHHERELQRLQKEKEWL
LAEETAATASAIEMKKAYQEELSRELSKTRSLQQGPDGLRKQHQSDEALKEQLVLEQYSQKCLEIGALMRQ
AEEREHTLRRCQQEGQELLRHNLHGRLESEEIDQLRGFIASQGMGNCCGRSNERSSCELEVLLRVKENELQYLK
KEVQCLRDELQMMQDKRFTSGKYQDVYVELSHIKTRSEREIEQLKEHLRLAMAALQEKESMRNSLAE

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FIGURE 6042

GGGAGGCAGAGGAGGCGGAGGCAGAGGCAGAGGCAGAGGCAGAGCCGAGCCCGGTGCCGAGACCAAGCGACAGA
CCGGCGGGGCTGGGCCTCGCAAAGCCGGCTCGGCAGACTCTCCCGACACCCGAGCCGGGGAGGAAAAGCAGCGAC
TCCTCGCTCGCATCCCCGGGAGCCGCACTCCAGACTGGCCCGGTAGTCAGGGGCTCAGGAGCAGATCCCGAGGCA
GGCTTTGCTCAGCCTCCGACGAGGGCTGGCCCTTTGGAAGGCGCCTTCAACAGCCGGACCAGACAGGCCACCATG
ACCGAGAATTCCACGTCCGCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCACCCC
AAGTATTTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACC GCGCTGGCTCCTCGCGCCAGTCCATTTCAG
AAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTGGTC
ACCACCGGTGTCTCTAAGCAGACCAAAAGGGGTGGGGCCTCGGGGTCTTCCGGCTAGCCAAGAGCGACGAACCC
AAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAGCCC
AAGAAGGCTGCCTCCAAGCCCCAACC AAGAAACCCAAAGCCACCCCGGTCAAGAAGGCCAAGAAGAAGCTGGCT
GCCACGCCCAAGAAAGCCAAAAACCCAAGACTGTCAAAGCCAAGCCGGTCAAGGCATCCAAGCCCAAAAAGGCC
AAACCAGTGAAACCCAAAGCAAAGTCCAGTGCCAAGAGGGCCGGAAGAAGTGACAATGAAGTCTTTTCTTG
CGGACACTCCCTCCTGTCTCTATTTCTGTAAATAATTTCTCCTTTTTTCTCTCTTGATGCTCACCACCACCT
TTTGCCCCCTTCTGTTCTGACTTTATAAGAGACAGGATTTGGATTCTTCAGAAATTACAGAATAATTCATTTTTC
CTTAACCAGTTGTGCAAGGACAGCAACAACCAATCTAATGATGAGAATGTACTTATATTTGTTTTGCTATTAAC
CTACTTACGGGGTTAGGGATTTGCGGGGGGGGCTTGTGTGTTTTGTTGGCTTGTTTGCCATGAAGGTAGATGTGG
GTGGGGAGAAGACACAAGGCAGTTTGTCTGGCTAGATGAGAGGGAACCCAGGAATTGTGAGGTTAGCAGGAATA
TCTTTAGGGTGAGTGAGTTTTCTTTGAGTTGGGCACCCGTTGTGAGAGTTTCAGAACCTTTGGCCAGCAGGAGAG
AGGTGGTAGGGAGCAGCCAGCCGGCAAAGGAAGGAGGGGGAAAAAACCGCCACCGGGCTGACTTCCACCTCCCA
GTGGTGAGCAGTGGGGGCCCAAACCCAGTTTCCTTCTCATTTTGTAGTTTGCGCTTTCGGCCTCCCTATTTTC
TTAGGGAAGGGGAGTGGGGTCCAAGTGACAGCTGGATGGGAGAAGCCATAGTTTCTCCAGTCAGCTAGGATGTA
GCCATTGGGGGATCTTTGTGGCTTCAGCAAATCTCTTGTAAACCGAGTGAAAACCTTCAGGGGAAGGGTGGGG
AGTCAGCCAAGTGCCCTCAGTGTGCCCTGTTGAACTTAGGTTTTTCCACGCAATCGATGGATTGTGTCTTAGGAA
GACTTTTCTTTTCTCTGGATTTTGTTCCTCCTGTACAAGAGGTGTCTTTGCTTGGTTTGGTGGGGCTGCGGCC
ACTTAAAACCTCCCGATCTCTTTTGTAGTCCTTTATTATAAGTAGTTGTAGCTGCGGGAGGGGGAGGGGGAGTGG
GCGGGCAGTGGATAGTAAGACTTACTGCAGTCGATTGGGATTGCTAAGTAGTTTACAGAGCTAGATCTGTGT
GCATGTGTGTGTTGTGTATATATACATATCTAGGGCTAGTACTTAGTTTCACACCCGGGAGCTGGGAGAAAAA
CCTGTACAGTTGTCTTTCTCTTATTTTTAATAAAATAGAAAAATCGCGCACTTGC GCGTCCCCCCCCACCCCT
TTTTTAAACAAGTGTTACTTGTGCCGGGAAAATTTGCTGTCTTTGTAATTTTAAACCTTTAAAATAAATTGAA
AAGGGAG

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FIGURE 6043

ATGACCGAGAAATTCACGTCCGCCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCAC
CCCAAGTATTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACCGCGCTGGCTCCTCGCGCCAGTCCATT
CAGAAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTG
GTCACCACCGGTGTCCTCAAGCAGACCAAAGGGGTGGGGGCCTCGGGGTCCTTCCGGCTAGCCAAGAGCGACGAA
CCCAAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAG
CCCAAGAAGGCTGCCTCCAAAGCCCCAACCAAGAAACCCAAAGCCACCCTTTTTTTAACAAGTGTTACTTGTGCC
GGGAAAATTTTGCTGTCTTTGTAATTTTAAAACTTTAAATAAATTGAAAAGGGAG

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FIGURE 6044

MTENSTSAPAAKPKRAKASKKSTDHPKYSDMIVAAIQAEKNRAGSSRQSIQKYIKSHYKVGENADSQIKLSIKRL
VTTGVLKQTKGVGASGSFRLAKSDEPKKSVAFFKTKKEIKKVATPKKASKPKKAASKAPTCKKPKATLF

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FIGURE 6045

GTCTTTCCGGCGGTGCTCGCAAGCGAGGCAGCC**ATG**TCTTATCCCGCTGATGATTATGAGTCTGAGGCGGCTTAT
GACCCCTACGCTTATCCCAGCGACTATGATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTATGAACGTCAG
TATGAACAGCAAACCTATCAGGTGATCCCTGAGGTGATCAAAAACCTTCATCCAGTATTTCCACAAAACCTGTCTCA
GATTTGATTGACCAGAAAGTGTATGAGCTACAGGCCAGTCGTGTCTCCAGTGATGTCAATTGACCAGAAAGGTGTAT
GAGATCCAGGACATCTATGAGAACAGCTGGACCAAGCTGACTGAAAGATTCTTCAAGAATACACCTTGGCCCCGAG
GCTGAAGCCATTGCTCCACAGGTGGCAATGATGCTGTCTTCTGATTTTATACAAAGAATTATACTACAGGCAC
ATATATGCCAAAGTCAGTGGGGGACCTTCCTTGGAGCAGAGGTTTGAATCCTATTACAACCTACTGCAATCTCTTC
AACTACATTCTTAATGCCGATGGTCTGCTCCCTTGAACCTACCCAACCAAGTGGCTCTGGGATATTATCGATGAG
TTCATCTACCAGTTTCAGTCATTTCAGTCAGTACCCTGTAAAGACTGCCAAGAAGTCAGAGGAGGAGATTGACTTT
CTTCGTTCCAATCCCAAAATCTGGAATGTTTCATAGTGTCTCAATGTCTTTCATTCCCTGGTAGACAAATCCAAC
ATCAACCGACAGTTGGAGGTATACACAAGCGGAGGTGACCCTGAGAGTGTGGCTGGGGAGTATGGGCGGCACTCC
CTCTACAAAATGCTTGGTTACTTCAGCCTGGTTCGGGCTTCTCCGCTGCACTCCCTGTTAGGAGATTACTACCAG
GCCATCAAGGTGCTGGAGAACATCGAAGTGAACAAGAAGAGTATGTATTCCCGTGTGCCAGAGTGCCAGGTCACC
ACATACTATTATGTTGGGTTTGCATATTTGATGATGCGTCGTTACCAGGATGCCATCCGGGTCTTCGCCAACATC
CTCCTCTACATCCAGAGGACCAAGAGCATGTTCCAGAGGACCACGTACAAGTATGAGATGATTAAACAAGCAGAAT
GAGCAGATGCATGCGCTGCTGGCCATTGCCCTCACGATGTACCCCATGCGTATCGATGAGAGCATTCACCTCCAG
CTGCGGGAGAAATATGGGGACAAGATGTTGCGCATGCAGAAAGGTGACCCACAAGTCTATGAAGAACTTTTCAGT
TACTCCTGCCCCAAGTTCCTGTGCGCTGTAGTGCCCAACTATGATAATGTGCACCCCAACTACCACAAAGAGCCC
TTCCTGCAGCAGCTGAAGGTGTTTTCTGTAGTGAAGTACAGCAGCAGGCCAGCTTCAACCATCCGCAGCTTCCTG
AAGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCTTGACCTCACAGAGCAGGAGTTCCGGATCCAG
CTTCTTGCTTTCAACACAAGATGAAGAACCTCGTGTGGACCAGCGGTATCTCAGCCCTGGATGGTGAATTTTCAG
TCAGCCTCAGAGGTTGACTTCTACATTGATAAGGACATGATCCACATCGCGGACACCAAGGTCGCCAGGCGTTAT
GGGGATTTCTTCATCCGTCAGATCCACAAATTTGAGGAGCTTAATCGAACCTGAAGAAGATGGGACAGAGACCT
TGATGATATTACACACATTTCAGGAACCTGTTTTGATGTATTATAGGCAGGAAGTGTTTTTGCTACCGTGAAACC
TTTACCTAGATCAGCCATCAGCCTGTCAACTCAGTTAACAAGTTAAGGACCGAAGTGTTCAGTGGATCTCAGT
AAAGGATCTTTGGAGCCAGAAAAAA

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FIGURE 6046

MSYPADDYSEEAAYDPYAYPSDYDMHTGDPKQDLAYERQYEQQTYQVPIEVIKNFIQYFHKTVSDLIQKVYELQ
ASRVSSDVIDQKVYEIQDIYENSWTKLTERFFKNTPWPEAEAIAPQVGNDVFLILYKELYRHIYAKVSGGPSL
EQRFESYYNYCNLFNYILNADGPAPLELPNQWLWDIIDEFIYQFQSFSQYRCKTAKKSEEEIDFLRSNPKIWNVH
SVLNVLHSLVDKSNINRQLEVYTSGGDPESVAGEYGRHSLYKMLGYFSLVGLLRLHSLLDYQAIKVLNIELN
KKSMYSRVPECQVTYYYVGFAYLMMRRYQDAIRVFANILLYIQRTKSMFQRTTYKYEMINKQNEQMHALLAIAL
TMYPMRIDESIHLQLREKYGDKMLRMQKQDPQVYEELFSYSCPKFLSPVVPNYDNVHPNYHKEPFLQQLKVSDE
VQQQAQLSTIRSFLKLYTTPVAKLAGFLDLTEQEFRIQLLVFKHKMKNLVWTSGISALDGEFQSASEVDFYIDK
DMIHIADTKVARRYGDFFIRQIHKFEELNRTLKKMGQRP

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FIGURE 6047A

GGCCAAGCCGGGGCCCCGAAGCCAGAGCCGGAGCCGGGCGGGGCCGCGGGGTCATGGCTGGGCCGCGGGGCGCGCT
GCTGGCCTGGTGCCGCCGCCAGTGCGAGGGCTACCGCGGCGTGGAGATCCGCGACCTGAGCAGCTCCTTCCGGGA
CGGCCTGGCCTTCTGCGCCATCCTGCACCGGCACCGGCCCCACCTGCTAGATTTTGATTGCTTTCCAAGGACAA
TGCTTTGAGAATAACCGTTTGGCCTTTGAAGTGGCTGAGAAGGAGCTGGGGATCCCCGCTCTCCTGGACCCCAA
TGACATGGTCTCCATGAGCGTCCCTGACTGCCTCAGCATCATGACCTATGTGTCCCAGTATTACAACCACTTCTG
CAGTCTGGCCAAGCTGGTGTCTCGCCACCCAGAAAGGGCCTTGACCCCTGTTCCCCGCGCTCTGTAGCACCCAC
TCCAGTGAACAGAAAGATGTGGCTCAGGGCGAGGAGCTCTCCTCAGGCAGCCTGTGAGAGCAGGGCACCGGCCA
GACCCCCAGCAGCAGTGCAGCAGCTGCCAGCAGCATGTGCACTTGGTGCAGCGCTACCTGGCTGACGGCAGGCT
GTACCATCGCCACTGCTTCCGGTGTGCGCGGTGCTCCAGCACCTGCTCCCTGGGGCTTATGAGAATGGGCCTGA
GGAGGGCACCTTTGTGTGTGAGAACACTGTGCCAGGCTGGGCCCCGGGGACACGGTTCGGGGACCAGGCCTGGGCC
CTTCTCACAGCCAAAGCAGCAGCACCAGCAGCAACTCGCAGAAGATGCCAAGGATGTTCCAGGAGGCGGGCCCCAG
CTCCAGTGCTCCTGCAGGGGCTGAGGCCGATGGACCCAAGGCCAGCCCTGAGGCCCCGGCCGAGATCCCTACCAA
GCCCCGGGTTCTTGGCAAACCTACAGGAGCTGGCCAGCCCCCTGCGGGCCGCCCAACCCCTGCCCCAGGAAGGC
CTCTGAGAGCACCAACCCAGCACCCCCACGCCCCGGCCCCGCTCCAGTCTGCAGCAGGAGAACCTGGTGGAGCA
GGCTGGCAGCAGCAGCCTGGTGAACGGGAGACTGCACGAACTGCCTGTCCCCAAGCCGAGGGGGACACCGAAGCC
GTCCGAGGGGACACCAAGCCCCAGGAAGGACCCCCATGGATCACGCTGGTGCAGGCAGAACCAAGAAGAAGCC
AGCCCCACTTCCCCAAGCAGCAGCCCGGGGCCACCAAGCCAGGACAGCAGGCAGGTGGAGAATGGAGGCACCGA
GGAGGTGGCCCAGCCGAGCCCAACGGCCAGCCTGGAGTCCAAACCTATAACCCCTTTGAGGAGGAGGAGGAGGA
CAAGGAGGAAGAGGCTCCAGCTGCACCCAGCCTGGCCACCAAGCCCTGCCCTGGGCCACCCGGAGTCCACACCCAA
GTCCCTGCACCCCTGGTACGGCATCACCCCTACCAGCAGCCCCAAGACAAAGAAGCGCCCTGCCCGCGCGCACC
CAGCGCGTCCCCACTGGCTCTCCACGCCTCCCGCTCTCGCACTCGGAGCCGCCCTCGGCCACACCATCGCCAGC
GCTCAGCGTGGAGAGCCTGTGCTGTGAGAGCGCCAGCCAGACTGCAGGTGCAGAGCTTCTGGAGCCGCCAGCTGT
GCCCAAGAGCTCCTCAGAGCCTGCTGTCCATGCCCTGGTACCCCTGGAAACCTGTGAGCCTCTCTACCAACTC
CTCCCTGGCCTCCTCTGGGGAAGTAGTGGAGCCTAGAGTGGAAACAAATGCCTCAAGCCAGCCCTGGCCTTGCCCC
CAGGACCAGGGGACAGCTCAGGTCCCCAGCCAGCCAGCCCTGCAGTGGCGCCACCCCAACGCCTCTCTTGTGGT
TGGAGACAGGAGCCCGGTGCCTTCCCTGGAAGCTCGTCCCCACAGCTGCAGGTAAAGTCTCCTGCAAGGAGAA
TCCTTTTAAACCGGAAGCCATCACCTGCAGCGTCCCCAGCCACAAAGAAGGCCACCAAGGGATCCAAGCCAGTGAG
GCCACCTGCCCTGGACACGGCTTCCACTCATCAACGCAAGGTCCAGGCTGACCAGTACATCCCTGAGGAGGA
CATCCATGGAGAGATGGATACCATTGAGCGCCGGCTGGATGCCCTGGAGCACCGTGGGGTGTGCTGGAGGAGAA
GCTGCGTGGCGGCTGAATGAGGGCCGTGAGGATGACATGCTGGTGGACTGGTTCAAGCTCATCCACGAGAAGCA
CCTACTGGTGGCGGAGAGTCCGAGCTCATCTATGTCTTCAAGCAGCAGAACCTGGAGCAGCGCCAGGCTGATGT
CGAGTATGAGCTCCGGTGCCTCCTCAATAAGCCAGAAAAGGACTGGACGGAGGAGACCGGGCCCGGAGAAAGGT
GCTGATGCAGGAGCTTGTGACCCCTATTGAGCAGCGCAACGCTATCATCAACTGCCTGGATGAGGACCGGCAGAG
GGAGGAAGAGGAAGACAAGATGTTGGAAGCCATGATCAAGAAGAAAGAGTTCCAGAGGGAGGCTGAACCTGAGGG
CAAGAAGAAGGGGAAGTTCAAGACCATGAAGATGTTGAAACTGCTAGGAAACAAACGTGATGCCAAGAGCAAGTC
CCCCAGAGACAAGAGCTAAACAGCACGAGAAGCCAGTTGGGGACTGCCCCCTCCTGGAGCAGCTCCTGGGCTGTGC
TCTGTTTGAAGGGGGCGCCCTGCTCCCTCAGATCAGTCAGGAGGAAGATGACTAAGGGGAGGGATCCTCTGGGT
GATGGCCTCTTCTCCTCAGGGACCTCTGACTGCTCTGGGCCAAAGAATCTCTTGTTTCTTCTCCGAGCCCCAGG
CAGCGGTGATTAGCCCTGCCAACCTGATTCTGATGACTGCGGATGCTGTGACGGACCCAAGGGGCAATAGGG
TCCAGGGTCCAGGGAGGGGCGCCTGCTGAGCACTTCCGCCCTCACCTGCCAGCCCTGCCATGAGCTCTGG
GCTGGGTCTCCGCTCCAGGGTCTGCTCTTCCAGGCAGGCCAGCAAGTGGCGCTGGGCCACACTGGCTTCTTCC
TGCCCCATCCCTGGCTCTGAGTCTGTCTTCTGTCTGTGAGGCGCCCTTGATCTCAGTTTCCCTCACTCA
GGAAGTCTGTTTCTGAAGTCTTCAAGTTAAGTTTGAAGTTTATGACTGAGTGGCCTGTACTGTGAGAGTGAATGGG
CCTGACGGGCAATCCATCCCTCTCTCCCTCACAGTTCCAGGAGCGGCTTCCCTCGTCTCCCTTACTCCACAGG
GAGCCTCCCTTGCCAGGACCAGGGCTGCGACGGCCATGCTGGGGCAGGTGAGTGTCTGTGTAGCTGCTCCAGTG
CTGTCCCCAGGCTGCAGTTCTGGTCCCTGGTTGTGAGGTAGGAAGGGTGCAGTTGAAGCAGGTGCTCATCTCGGT
TCCTTAACGTTTATAGTCTGACCCCTCACTTAGGCTTTCCTCTGCCACCCGGTCCAGGGAAGAGGCTCGTCCC
GCCCATGGTCATCACTGGTCTGTCTGCTGTGTTCTTTCCCTGACTCCCTCCACCGAAGGCCTGATGG

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FIGURE 6047B

CTACTCACCCCTCTGGGATGGCTATGGGAGAGGAGGAGTGATGGGGACCGCCACCTTTTCTGCAGGAAATGTGCC
CAGCAGCTCTTGGTCAAAGCACTGTTGCTATAAGCTATCTCTGGGATGCCTCTAGGCCCCCTTCCCTCTACACAC
CTCTGGGAAAAGATTACACTGTATTAAGCTCTCGAGGAGTTTCCTCACCAATAAACAGACAACCTCAACTGCCAGT
GCCCTGCAGCCTCGGGCCACAGCGGCAGCCTTGTTTGCCTTCCCACCTGCCTCTGCCACACCTGGTGGCTGAACA
TCTCTGGTCGCCCCAGAGGCCATGTTGGGGCCATCCTCCAAGAGGGATCTCTGCCCTCACCGCCTGCCACTGGGCA
GGATCCCTTTCTCTGCAGGGAGAGGTGGCTCCTCGGCCATGCAGCCCCTGGCAGGCTCCTTCTAAACATGCCTG
TTGACCTGGAGCTGGCGCCACCAACTCCAGGGCCTTTCCAGGGCCAGACAGGTAACACGCATGAACCCGAGTGAC
AGCTCTGACGGGCTGTTTCGGTGTCAGGAGACAAAGCTGGCAGGGGCAGGGGTGAACTGGAGGCAAGTCAAGTCA
CCTGTGGCCTGTGGGGCTGAATGTGGGCCCCGTGTTGCCAGATCCTTTGTCTATAAGAAGCTAGAAATCCAGATTT
TATGTGTGTGTAATTTGTAAATGCTGAAAGCTAGCCTGAATTTTTTTTTTTTTTTTTTTTGTAGACAGAGTCTCGCTC
TGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTCAGCTCACTGCAAGCTCCGCCTCCTGGGTTACAGCCATCCTC
CTGCCCTCGGCCTCCTGAGCAGCTGGGACTACAGGCGCATGCTACGACGCCTGGCTAATTTTTTGTATTTTTTAGTA
GAGACGGGGTTTACCCTGTTAACCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCACCTTGGCCTCCCA
AAGTGTCTGGGATTACAGGCGTGAGCCACCACGCCCCGCCACTAGCCTGAATTTCAATCAAGGGTTGGCTGATACT
GTGTGTCCAGGGTGGACTGGATTTGTCTGGGGGGTTCTCTGGTTTGCTGCCTCCTGACCACATGATGGGGCCTT
CGAGGTCGAGGACAACGTTCCTTAGATTGCACCCCTCTGCCCTCAGGTTCTTGAGGGTGTGTGGACACAGAGG
CTTCCATGGGATGTCCCTGAGCCGGCCCTTGATTGGGGCCTCACCATTTACAGGGCCGTTTTATTCTGCAAACC
GAACTTGGGTCATGTGACCTGATGGGATTATGGGACTCCCTCCAGGTGCCCGAGACAAGGTTGATATTTCCAAA
ATATTTTGGTGATTTAGTGGGACAAGCAAATGACAGAATACCGGAGAAGGCAGGGATCGTGGGTGTGAGGAGCCA
GAGGGGAGGGGGACAGATGTGCTGTGTACAGGACAAGGTGTGAGGTGACTCCTTCCCAGCAGGGCCTCGCAGATG
CACAAAGCACGGAGCTGGTGGGTTTTGCCCAAGAAAGGTACGCGGCACATGCAGGGATTGGAACCTCCAGGCCAG
GGCTCTAGGTCGCTCCACCTTTTCATGTTTCTTTCTGTGGCCATGGGTATAGTGGAAGACATAAAGCTAAAGC
CAACTTTTAATCCTGAATGCACTGCTTGCCAGGTAAATGCCCTTGTTGTGGTATCTTGTTGAGACTTAGTTTTTC
ACAGAGGGATAATGAACCGTTGCAGAGGTTTATTGAGATCATTAACAGAGTGGAATTCAGCACCCGCCACAGCAG
CCAGCCATGGG

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FIGURE 6048

MAGPRGALLAWCRRQCEGYRGVEIRDLSSSFRDGLAFCAILHRHRPDLLDFDSLSDNVFENNRLAFEVAEKELG
IPALLDPNDMVMSVDPCLSIMTYVSQYYNHFCSPGQAGVSPPRKGLAPCSPPSVAPTPVEPEDVAQGEELSSGS
LSEQGTGQTPSSTCAACQQHVHLVQRYLADGRLYHRHCFRCRRCSSTLLPGAYENGPEEGTFVCAEHCARLGP
RSGTRPGFFSQPKQQHQQLAEDAKDVPGGGPSSSAPAGAEADGPKASPEARQIPTKPRVPGKLQELASPPAGR
PTPAPRKASESTTPAPPTPRPRSSLQOENLVEQAGSSSLVNGRLHELPVPKPRGTPKPSGTPAPRKDPPWITLV
QAEFKKKPAPLPFSSSPGPPSQDSRQVENGTEEVAQPSPTASLESKPYNPFEEEEEDKEEEAPAAPSLATSPAL
GHPESTPKSLHPWYGITPTSSPKTKKRPAPRAPSPALHASRLSHSEPPSATPSPALSVESSLSESASQTAGA
ELLEPPAVPKSSSEPAVHAPGTPGNPVSLSTNSSLASSGELVEPRVEQMPQASPGAPRTRGSSGPQPAKPCSGA
TPTPLLLVGDRSPVPSPGSSSPQLQVKSSCKENPFNRKPSPAASPAKKATKGSKPVRPPAPGHGFPLIKRKVQA
DQYIPEEDIHGEMDTIERRDALEHRGVLLLEKLRGGLNEGREDMLVDWFKLIHEKHLLVRRESELIYVFKQON
LEQRQADVEYELRCLLNKPEKDWTEEDRAREKVLQMQLVTLIEQRNAIINCLDEDQREEEEDKMLEAMIKKKEF
QREAEPEGKKKGKFKTMKMLKLLGNKRDAKSKSPRDKS

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FIGURE 6049

GTCCGGCCAGGGTGGTTGGTGGTAAGGATTCAAGGCTCCGTCTTAACGAGGCCGTGGCCTGAGGCTCAGGGCCCCC
CGCCCCCTCCCTCCCAGCCCACCAGCGTCACCTCCCAGCCCCGAGCTGGACCGCACACCTTGGGACACGGTTTTCC
ACTTCTTAAGGACGAGCCCCAGACTGGAGGAGAGGTCCGAGGAGGTGGGCGTTGGACTCTTTGCGAGGACCCCGG
CGGCTGGCCCCGGGGAGGCGGCCGAGGCGGCCGCGGCCGCGGCCGCGGGGCGACATGGCGGAGGAGCAGGACCTAT
CGGAGGTGGAGCTGAGCCCCGTGGGCTCGGAGGAGCCCCGCTGCCTGTCCCCGGGGAGCGCGCCCTCGCTAGGGC
CCGACGGCGGCGGCGGCGGATCGGGCTGCGAGCCAGCCCCGGGGCCAGGCGAGCTGGGCAAGGTCAAGAAGGAGC
AGCAGGACGGCGAGGCGGACGATGACAAGTTCCCCGTGTGCATCCGCGAGGCCGTGAGCCAGGTGCTCAGCGGCT
ACGACTGGACGCTGGTGCCCATGCCCCGTGCGCGTCAACGGCGCCAGCAAAAGCAAGCCGCACGTCAAGCGGCCCA
TGAACGCCTTCATGGTGTGGGCTCAGGCAGCGCGCAGGAAGCTCGCGGACCAGTACCCGCACCTGCACAACGCTG
AGCTCAGCAAGACGCTGGGCAAGCTCTGGAGGCTGCTGAACGAAAGTGACAAGCGCCCCCTTCATCGAGGAGGCTG
AGCGGCTCCGTATGCAGCACAAGAAAGACCACCCGACTACAAGTACCAGCCCAGGCGGCGGAAGAACGGGAAGG
CCGCCAGGGCGAGGCGGAGTGCCCCGGTGGGGAGGCCGAGCAAGGTGGGACCGCCGCCATCCAGGCCCACTACA
AGAGCGCCCACTTGACCACCGGCACCCAGGAGAGGGCTCCCCCATGTGAGATGGTAACCCGAGCACCCCTCAG
GCCAGAGCCATGGCCCACCACCCCTCCAACCACCCCGAAGACAGAGCTGCAGTCGGGCAAGGCAGACCCGAAGC
GGGACGGGCGCTCCATGGGGGAGGGCGGGAAGCCTCACATCGACTTCGGCAACGTGGACATTGGTGAGATCAGCC
ACGAGGTAATGTCCAACATGGAGACCTTTGATGTGGCTGAGTTGGACCAGTACCTGCCGCCCAATGGGCAACCCAG
GCCATGTGAGCAGCTACTCAGCAGCCGGCTATGGGCTGGGCAAGTGCCTGGCCGTGGCCAGTGGACACTCCGCT
GGATCTCCAAGCCACCAGGCGTGGCTCTGCCCACGGTCTCACCACCTGGTGTGGATGCCAAAGCCAGGTGAAGA
CAGAGACCGCGGGGCCCCAGGGGCCCCACACTACACCGACCAGCCATCCACCTCACAGATCGCCTACACCTCCC
TCAGCCTGCCCCACTATGGCTCAGCCTTCCCCCTCCATCTCCCGCCCCAGTTTGACTACTCTGACCATCAGCCCT
CAGGACCCATATTATGGCCACTCGGGCCAGGCCTCTGGCCTCTACTCGGCCTTCTCCTATATGGGGCCCTCGCAGC
GGCCCCCTCTACACGGCCATCTCTGACCCAGCCCTCAGGGCCCCAGTCCCACAGCCCCACACTGGGAGCAGC
CAGTATATACGACACTGTCCCGGCCCTAAAGGGGGCCCTGTGCGCCACCACCCCCCGCCAGCCCCCTGCCCCCAGC
CTGTGTGCCCTGTTTCTTGGCCACCTCAGGCCTGGTGGTGGCAGTGGAGGAGGCTGAGGAGGCTGAAGAGGCTGA
CAGGTCGGGGGGGCTTCTGTCTGGCTCACTGCCCTGATGACCCACCCGCCCATCCAGGCTCCAGCAGCAAAGCC
CCAGGAGAACAGGCTGGACAGAGGAGAAGGAGGTTGACTGTTGCACCCACACTGAAAGATGAGGGGCTGCACCTT
CCCCCAGGAATGACCTCTATCCAGGACCTGAGAAGGGCTGCTCACCCTCCTCGGGGAGGGGAAGCACCAGGG
TTGGTGGCATCGGAGGCCTTACCACTCCTATGACTCCTGTTTTCTCTCTCACAGATAGTGAGGGTCTGACATGCC
CATGCCACCTATGCCACAGTGCCTAAGGGCTAGGCCACCCAGAGACTGTGCCCAGGCTGGCCGTGTCTCCCACT
CAGGGGCTGAGAGTAGCTTTGAGGAGCCTCATTGGGGAGTGGGGGGTTCGAGGGACTTAGTGAGATTCTCATCCC
TTCAATGCCCCCTCCCTTTCTGAAGGCAGGAAGGAGTTGGCACAGAGGCCCTGATCCAATTCTGTGCCAATAA
CCTCATTCTTTGTCTGAGAAACAGCCCCCAGTCCTCCTCCACTACAACCTCCATGACCTTGAGACGCATCCCAGG
AGGTGACGAGGCAGGGGCTCCAGGAAAGGAATCAGAGACAATTCACAGAGCCTCCCTCCCTGGGCTCCTTGCCAG
CTCCCTCTTCCCTTACTAGGCTCTATGGCCCCCTGCTCAGTCAGCCCCACTCCCTGGGCTTCCAGAGAGTGACAG
CTGCTCAGGCCCTAACCTTGGCTCCAGGAGACACAGGGCCAGCACCAGGTTGCTGTGCGCAGGCTGAAGACA
CTAGAATCCTGACCTGTACATTCTGCCCTTGCTCTTACCCCTTGCTCCAGTGGTATTTGAATAAAGTATGTA
GCTATATCTGCCCTATTTTCTGTTCTGCGAGCCCCCAAATCCACATGTAACCTATTACTGTCTCCTGTTATTT
ATCTCAGTAGTCCCTCTCCTAGCCACTCTAGCCCCCTATTAACCTCTGCATTAAAGCATTCCACATAATAAAATTAA
AGGTTCCGGTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6050

MAEEQDLSEVELSPVGSEEPRLSPGSAPSLGPDGGGGGSGLRASPGPGELGKVKKEQQDGEADDDKFPVCIREA
VSQVLSGYDWTLPMPVRVNGASKSKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLES
RPFIEEAERLRMQHKKDHPDYKYQPRRRKNGKAAQGEAECPGGEAEQGGTAAIQAHYKSAHLDRHPGEGSPMSD
GNPEHPSGQSHGPPTPPTPKTELQSGKADPKRDGRSMGEGGKPHIDFGNVDIGEISHEVMSNMETFDVAELDQY
LPPNGHPGHVSSYSAAGYGLGSALAVASGHSAWISKPPGVALPTVSPPGVDAKAQVKTETAGPQGPPHYTDQPST
SQIAYTSLSLPHYGSAFPISISRPQFDYSDHQPSPGPYYGHSQGASGLYSAFSYMGPSQRPLYTAISDPSPSGPQSH
SPTHWEQPVYTTLSRP

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FIGURE 6051

CTGGGGGTCCGTTCCCCAACTTCCTCGGCGCTCCGGACTCCCAAGTCTCCGCCGGACCCTCCTTTGGATATTCCCT
CGTGTCTCCGATTCTGAGAGAGGGGGAAGACGGTGGGGCCTCCCCACCTGCCCCGAGAAAGATGCAGTTCTTTGG
CCGCCTGGTCAATACCTTCAGTGGCGTCACCAACTTGTTCTCTAACCATTCCGGGTGAAGGAGGTGGCTGTGGC
CGACTACACCTCGAGTGACCGAGTTCGGGAGGAAGGGCAGCTGATTCTGTTCCAGAACACTCCCAACCGCACCTG
GGACTGCGTCTGGTCAACCCCAGGAAGTTCACAGAGTGGATTCCGACTCTTCCAGCTGGAGTTGGAGGCTGACGC
CCTAGTGAATTTCCATCAGTATTCTTCCCAGCTGCTACCTTCTATGAGAGCTCCCTCAGGTCTGCACACTGA
GGTCTGTCAGCACCTGACCGACCTCATCCGTAACCAACCCAGCTGGTTCAGTGGCCACCTGGCTGTGGAGCTAGG
GATCCGCGAGTGTCTCCATCACAGCCGTATCATCAGCTGTGCCAATTGCGCGGAGAACGAGGAGGGCTGCACACC
CCTGCACCTGGCCTGCCGCAAGGGTGATGGGGAGATCCTGGTGGAGCTGGTGCAGTACTGCCACACTCAGATGGA
TGTCACCGACTACAAGGGAGAGACCGTCTTCCATTATGCTGTCCAGGGTGACAATTCTCAGGTGCTGCAGCTCCT
TGGAAGGAACGCAGTGGCTGGCCTGAACCAGGTGAATAACCAAGGGCTGACCCCGCTGCACCTGGCCTGCCAGCT
GGGGAAGCAGGAGATGGTCCGCGTGCTGCTGTGCTGTGCAATGCTCGGTGCAACATCATGGGCCCAACGGCTACCC
CATCCACTCGGCCATGAAGTCTCTCAGAAAGGGGTGTGCGGAGATGATCATCAGCATGGACAGCAGCCAGATCCA
CAGCAAAGACCCCGTTACGGAGCCAGCCCCCTCCACTGGGCCAAGAACGCAGAGATGGCCCGCATGCTGCTGAA
ACGGGGCTGCAACGTGAACAGCACCAAGCTCCGCGGGGAACACGGCCCTGCACGTGGCGGTGATGCGCAACCGCTT
CGACTGTGCCATAGTGTGCTGACCCACGGGGCCAACGCGGATGCCCGCGGAGAGCACGGCAACACCCCGCTGCA
CCTGGCCATGTGAAAGACAACGTGGAGATGATCAAGGCCCTCATCGTGTTCGGAGCAGAAGTGGACACCCCGAA
TGACTTTGGGGAGACTCCTACATTCCTAGCCTCCAAAATCGGCAGACTTGTACCAGGAAGGCGATCTTGACTCT
GCTGAGAACCGTGGGGGCCGAATACTGCTTCCACCCATCCACGGGGTCCCCGCGGAGCAGGGCTCTGCAGCGCC
ACATCATCCCTTCTCCCTGGAAAGAGCTCAGCCCCACCGATCAGCCTAAACAACCTAGAACTACAGGATCTCAT
GCACATCTCACGGGGCCGGAAGCCAGCGTTTCATCCTGGGCTCCATGAGGGACGAGAAGCGGACCCACGACCCT
GCTGTGCCCTGGATGGAGGAGGAGTGAAAGGCCTCATCATCATCCAGCTCCTCATCGCCATCGAGAAGGCCTCGGG
TGTGGCCACCAAGGACCTGTTTGACTGGGTGGCGGGCACCAGCACTGGAGGCATCCTGGCCCTGGCCATTCTGCA
CAGTAAGTCCATGGCCTACATGCGCGGCATGTACTTTCGCATGAAGGATGAGGTGTTCCGGGGCTCCAGGCCCTA
CGAGTCGGGGCCCTTGAGGAGTTCTTGAAGCGGGAGTTTGGGGAGCACACCAAGATGACGGACGTCAGGAAACC
CAAGGTGATGCTGACAGGGACACTGTCTGACCGGCAGCCGGCTGAACCTCCACCTCTTCCGGAACACGATGCTCC
AGAAACTGTCCGGGAGCCTCGTTTCAACCAGAACGTTAACCTCAGGCCTCCAGCTCAGCCCTCAGACCAGCTGGT
GTGGCGGGCGGGCCGAAGCAGCGGGCAGCTCCTACTTACTTCCGACCAATGGGCGCTTCTTGACGGTGGGCT
GCTGGCCAACAACCCACGCTGGATGCCATGACCGAGATCCATGAGTACAATCAGGACCTGATCCGCAAGGGTCA
GGCCAACAAGGTGAAGAACTCTCCATCGTTGTCTCCCTGGGGACAGGGAGGTCCCCACAAGTGCCTGTGACCTG
TGTGGATGTCTTCCGTCCCAGCAACCCCTGGGAGCTGGCCAAGACTGTTTTTGGGGCCAAGGAACCTGGGCAAGAT
GGTGGTGGACTGTTGACCGGATCCAGACGGGCGGGCTGTGGACGGGCACGGGCCTGGTGCGAGATGGTCGGCAT
CCAGTACTTCAGATTGAACCCCCAGCTGGGGACGGACATCATGCTGGATGAGGTGAGTGACACAGTCTGGTCAA
CGCCCTCTGGGAGACCGAGGTCTACATCTATGAGCACCGCGAGGAGTTCAGAAGCTCATCCAGCTGCTGCTCTC
ACCTTGAGGGTCCCCAGCCTCTACCGGCCCCAGCTGACCTCGTCCATTACGCCCTGCCAGGCCAAGCCAGCC
ACTGCCCTCCCGGGCAGATCTGGGCCCAGGCACCTCTGAGTCCATAGACCAGGCCTGGGAGAATGCCAAGCTGCC
TGCCCGAGGCTGGTCTGAAGGCCTGTCTCCCACTAACCCCGCCTTCCAGCACTTTCTGTCTATTCCAGGCTGGGA
AAGTCTAGAGCCCCCTTTGGCCCCCTTTCCCTGACTGTCAAGGACAACCTGACTCCCCCATCAGCTCAAAACATTAAG
GGTACCCGGGCACAACCGTACCCCTGCCCCAGCCCCAGCCTCCCTGAGGGCCTGCCGGGCTGCCTCTGCCCCAG
CCCCAGCAAGGGCACTCCAGGCTTCTGGTGGGTGCAGCCCACTCCCTCTGCCCTCTGCTCCGTTCCCTGGGG
GCTGGGACTAAAGAAATGGGTGTCCCCACCCCATCAGCTGGGAAAGCCAGGCCGAGGAGTGGGATGCCCGTT
GGACTTTGCCCTCACACTGGCCAGCCCTCACACTGCCCAACCCGAGAACCCTCAGCTCTCAAAGGTCACTC
CTGGGAGTTCTTCTTCCCAATGGAAGTGGCTTAAGAGCCAAAACCTGAAATAAATCATTGGATTCAAGTTC

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FIGURE 6052

CTTACAACCTCCGCGCGGCTCGGCCCCCTGCGCCGCCCCGCCCCACAACAAACTCAGCGCAGCGCTCCCGGGGCGC
CCGGTTTCAGAGCGACCTGCGGCTCAGAGCGGAGGGGAGACTGACCGGAGCGCGGATCGGGACAGCGGCCGGGACA
GCGGCGAGACGCGCGTGTGTGAGCGCGCCGGACCAAGCGGGCCAGAAGCGGGTCTGCAGCCCAGAGGGCACCTT
CTGCAAAACATGTCTGTGGATCCCCTATCCAGCAAAGCTCTAAAGATCAAGCGAGAGCTGAGCGAGAACACGCCGC
ACCTGTCTGGACGAGGCGCTGATGGGGCTGTGCGTGCGGAGCTGAACCGGCATCTGCGCGGGCTCTCCGCCGAGG
AGGTGACACGGCTCAAGCAGCGGCGCCGCACACTCAAAAACCGTGGCTACGCCGCCAGCTGCCGCGTGAAGCGCG
TGTGCCAGAAGGAGGAGCTGCAGAAGCAGAAGTCGGAGCTGGAGCGCGAGGTGGACAAGCTGGCGCGCGAGAACG
CCGCCATGCGCCTGGAGCTCGACGCGCTGCGCGGCAAGTGCAGGGCGCTGCAGGGCTTCGCGCGCTCCGTGGCCG
CCGCCCGCGGGCCCCGCCACGCTCGTGGCGCCGGCCAGCGTCATCACCATCGTCAAGTCCACCCCGGGCTCGGGGT
CTGGCCCCGCCACGGCCCCGACCCCGCCACGGCCCCGGCCTCCTGCTCCTAGTGCCCCGCCCCGCCATGCCTCA
GCCACGCCCCCTCCGGCCTCAGCTCCCTCCCCAAAGTGCCTGAGCGCCGCTCTGTGCCAGGTCCCATTTCTCTG
CAGCACTGGCCCCCTTGGTGACACACATTCCCTTCGTGGGCCCTGTCTTCTCTTGACGCCCCCAAAGTGGGAC
CGAATGACCCTGGGAAGGGGAAGTTGGGTAGGTTGGGGATGGGGCAGAGGTCTGGATCTGGGATCGCCCTTGGCT
GAAAGTTTAGCCTTTTTTAGATTGAGAGATACAGAGCCGGCTTAGAGAACAGCTGTTGGGGGAGAAGAGGGCACCC
CTCATCTTGGAAACTGCTCTTATTGTGCCAATATGCCCTCCAAACCCTCCCAGGATTCAAAGCTAGGTTTGGCTG
TCTGTGACTTACGGGACCGTCTGCTGAGAAATTGCACTGAAGAGATGCCCCACCTCTGGTTGGGCCTGGGGGT
GCCTGGCCTTCCGAAACTAAAAGAGTGGGTGGGAAGACTAGTGAACCCAGTTCACGGATGGGGAAACAGGCCTG
AGGTCACATTTCACTTAGTGGTTGTGTTGGGACCAAAACCTGGGTGTCCTCACTGCTGAGTCCAGCCATGGTTTT
CAGGGGGACAGTGGACAGGGACTCAGAAATGTGGTGGGAGGGCCTCCCTGGCTTGGGAGACCGCTCTCTGCAAGG
GAGGGGGAGAGAAGCAGAGGGAGAGAGAAGGTGACACGGATGGAAGAGTGGGAAGGAGCTGGCTGGCTCAGCCC
TAGGCTGTCCCTGCAGCCAGGGTGTCCGGGGGCTGGCCAGTCAGAGAAAGGGGGCCATGGACTGCTGTGGCAAT
AGGGAGACAAGGAGACAGACCCTGCAGTCCTACTACAGTCTGGAGTGGGGTCCTAAGAAGAAGGGTCCACCTCA
ACCCCTGTCACTGTCCACTGTGGGTGGGGGCTGACCCCTGCCCTTTGATTGTCATTCTCTGGGAAGCCCAGTCT
CAGTCCCTCCCCAACACTGTCCACACTGCCCCCTCCCCACTGTTTATTTATTGCACGGATCTAAGTTATTCTCCC
CAGCCAGAGCCCCAGCTCCTGCTCCCTGGGAAAAGTGGCGTATGGCCCTGAGCTGGGCTTTATATTATATATCTG
CAAATAAATCACATTTTATCTTATATTTAGGGAAAGCCGGAGAGCAACAACAAAAAATGTTTAAGCCGGGCGCGG
TGGCTCACATCTGTAATCCAGCACTTTGGGAGTCCAAGGAGGGGGATCGCTTGAGTCCAGGAGTTTGAGACCAG
CCTGGACAACATGGTGAAACCCCGTCTCTACAAAAAATACAAAAATTAGCCATGCATGGTGGCTCATGCCTGTAG
TCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCACTTAAGCCCAGAAGGCAGAGGTGTAGTGAGCTGAGATCG
CACCCTGCACTCCAGCCTGGGCAACATAGCAAAATCCTGTCTCAAAAAAAGTTAAAAAATATTGCCCGGCTC
CTAGAATTTATTTATTTCTGACTTACAGCAAGCGAGTTATCGTCTTCTGTATTTTGTAGACTTTCTAAATAAAG
TCAAATTCCTTTCTTTTCCACAGAAAAA

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FIGURE 6053

MSVDPLSSKALKIKRESENTPHLSDEALMGLSVRELNRLRGLSAAEVTRLKQRRRTLKNRGYAASCRVKRVCQ
KEELQKQKSELEREVVDKLARENAAMRLELDALRGKCEALQGFARSVAAARGPATLVAPASVITIVKSTPGSGSGP
AHGPDPAHGPASCS

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FIGURE 6054

CGCCGGCGGGCGGGGAGACTCCGGGGCTGCGGGCGCCGCCCGCCCCGCGCCGAGAGTCCGGCTGCCGCGCATCGTC
CGCAGACGCCGCCACCGCCATGGGGCTCCTGAGGCTAGCTTGTCACTTTCTGCAAAGGTTTCCCTCAGGGAGCCTC
CTGCTGCCAGGCACCATGACAGTGAGGGGGGATGTGCTGGCCCCGGATCCAGCGTCGCCACGACCGCAGCAGCC
TCGCCCAGCGTCTCCGTGATCCCCGAGGGGAGCCCCACTGCCATGGAGCAGCCTGTGTTTCTGATGACAACTGCC
GCTCAGGCCATCTCTGGCTTCTTCGTGTGGACGGCCCTGCTCATCACATGCCACCAGATCTACATGCACCTGCGC
TGCTACAGCTGCCCCAACGAGCAGCGCTACATCGTGCGCATCCTCTTCATCGTGCCCATCTACGCCCTTGACTCC
TGGCTCAGCCTCCTCTTCTTACCAACGACCAGTACTACGTGTACTTCGGCACCGTCCGCGACTGCTATGAGGCC
TTGGTCATCTATAATTTCTGAGCCTGTGCTATGAGTACCTAGGAGGAGAAAGTTCCATCATGTGCGGAGATCAGA
GGAAAACCCATTGAGTCCAGCTGTATGTATGGCACCTGCTGCCTCTGGGGAAAGACTTATTCCATCGGATTTCTG
AGGTTCTGCAAACAGGCCACCCCTGCAGTTCTGTGTGGTGAAGCCACTCATGGCGGTGAGCACTGTGGTCTCTCCAG
GCCTTCGGCAAGTACCGGGATGGGGACTTTGACGTACCCAGTGGCTACCTCTACGTGACCATCATCTACAACATC
TCCGTACGCTGGCCCTCTACGCCCTCTTCTCTTCTACTTCGCCACCCGGGAGCTGCTCAGCCCTACAGCCCC
GTCCTCAAGTTCTTCATGGTCAAGTCCGTATCTTTCTTTCTTCTGGCAAGGCATGCTCCTGGCCATCCTGGAG
AAGTGTGGGGCCATCCCCAAAATCCACTCGGCCCGCGTGTGGTGGGCGAGGGCACCCTGGCTGCCGGCTACCAG
GACTTCATCATCTGTGTGGAGATGTCTTTGCAGCCCTGGCCCTGCGGCACGCCTTCACCTACAAGGTCTATGCT
GACAAGAGCTGGACGCACAAGGCCGCTGTGCCCCCATGAAGAGCATCTCCAGCAGCCTCAAGGAGACCATGAAC
CCGCACGACCTCGTGAGGACGCCATCCACAACCTCTCACCTACCAGCAGTACAGCAGCAGTCCACCCTG
GAGCCTGGGCCCATCCTGGCGTGGTGGCGCCACGGCCTCTCCCGCTCCACAGCCTCAGTGGCGCCGCGACAAC
GAGAAGACTCTCTCTGCTCAGCTCTGATGATGAATTCTAGGTGCGGGCTGCAGTGGCGGAAGTGTGGCGCCATAG
CCACGGTCAGGCTGTGCCCCACCTCCAGCCTCACCACAGGCCAGGAGGCAGCTGGCACAGTGTACGCGCCCT
TTATTTATTGGACCAGAAACACTCACATGTCACTTCCAGAGGAACGGGGGACAGCCAGGCTCGCCCCATGGGCCTT
CAGGAATATTTATACATGGCCAGCCTGCACTGCCCGGGCGAGGGCAGAGGACACTGGGAGCAAGGCTTATGCC
CTGCTGCCCGTCTGTGCTGGGGCATGCTGGGACCAGCCGACCCAGGCCCAATGCTTGTGTGTGGACCAGCG
GCTGCAGCCTTCTAGCCCTCTCTCCCCGCGAGACTCTCAGGCTGAGGTGCGCAAGCCGTGGCTCCCCACACACC
GTGCAATACCCTGTCTGACCTGGGCTCTTCCCGCCTGCATCCCTCCCTGTCCACCTTTGTCCAGTGTAGATT
ACCTCACCCCGGGCAGGAGTGGGGATGTGGGCGCTCTGTGGTCTCTCCCTCCTGACCCAGGCCTCTGTGGCATGC
TGCAAGGATCAGAGCCAGACACCAGGAGTCACAGGCCCCACCCAGGAAGGGCATTACAGGGCCCTGGGCACCGCT
TCTGTTGAAGCAGGGGCTTCTGGGCCCCCTGGGTATCCCCACCTGTGCTGGCCACACCTCTGCCTGCCTCATGCC
CTTCCCCCTGGCTACCAAGGACAGCCACAGCCCGCACTGCCGGCTCACTTGGGTCTCTCTCGATAGCTTTGG
GCAGAGCCCTTGCTTCTTGCTGCTTCAGGGCTCAGGGGCTCCAGCCCTCTTCCAGGCTGATGCTGGGTCTCT
CTCTCTCTTTGGGGCTTCTCCCTCCCGTTTCAGGGGAAAGGTCTGAGTCTCCACGTTTCAGACCAGCTTCTGGGG
GAAGGCAGTCCGGCAGGGAGACCGGGAGGGGTGGCCACACAGTGGGAGCTGGGAGGTGGGGGAATGGTCCCAG
ACTCTCTCGGGGCCCCATCCACACAGGGCCTGGTGTCTACCCCATCTGGCCCTGGCCCATCTCTTCTGTGC
CTTAGTCACATATGAAAGCGCCCCCTCCCTGGCTCPCCATCTGTCCACACGCTCCCTGGGGCTCTTAGTTCAGCT
GCTGGCACTCGCAGGATCCTGCAGTGTGGGCCAGAGCCCTTGACAGGCCTCAGGAGTGGTACAGGCCACCAA
GCCCCCTCTCTCCCCCTCCACACCTCTAGACCTGGGGCTCCGGAACCCCCAGCAGGCTGGGCTTATACTAGCTC
CTGACTTAGGAAGAGCCTCGTGTCAACAACAGTGTCCCTACAGGCAAAGTGTCTGGCATTATAAACCCAGATTA
TCCCTGGGTTTGGGCTGCAGTCACCTGGAGAAGCTGGTAGGGTAAGGGAGAGGGACCCTGCCGGTGTCACTGGG
GATTCTTTCTTTTGGTCTCTCTGGAATGAACAGGTTCCCTCCCTGCCACCTGTGAGGAGAGTTGGGGCCAGCC
GTCTTCTGGCCTCCTTCTTCTCTGCTGGCAGAGGCCTGCATGTGGGTGCCAGAGGCCAGCTCTCCCCCTCCAT
CTTGGGGGGGCGGAGCAGTTGGGCCAAAGCTGCCCGGGAGGGTGGGTGCAGACACAGGCTGAGGACCAGCCCTGG
CCCTGCCCCGCCATCTGCTTACCAAGCTGTCTCTCCACCGTGGCTTCCCTTCTCCCTCCAGGCCAAAGTGCTG
CTGATTCCCACTCCCTTGGTTTTGCTGCTGCCAGCGTTGCTGTTTGGTGGAGGGTGGGGGGAGCTCAGTGGCAG
GGAATCAGCGGTCCGTGGGGTCTGGGGACGGGAACATGTGCCGACCGCTCCATCCCTCCTCCTCTTAGGAT
GCATAACCTACCTGTCTTTTTTTTTTAAATTTCTTTCCAGGTAGAGTAGCTCTTTGTACATAAAGAATACTT
GAAAAATTAATTGTATGATGATGAGAAGACAGAGTCTCTAGTTTTGTATCTTGTGTATGACTGCCATGAGTT
CCACCAGAAAGCCACTCTATTTTGGTCCCTGTGACATTTTAAATGCGTGACAGAAGTGAGCAAATAAAGTGAGGA
AGAAATCTATATATGAGATAATATAGATTGTATTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6055

MEQPVF LMTTAAQAISGFFVWTALLITCHQIYMHLRCYSCPNEQRYIVRILFIVPIYAFDSWLSLLFFTNDQYYV
YFGTVRDCYEALVIYNFLSLCYEYLGGESSIMSEIRGKPIESSCMYGTCCCLWGKTYSIGFLRFCKQATLQFCVVK
PLMAVSTVVLQAFGKYRDGDFDVTSGYLYVTIIYNISVSLALYALFLFYFATRELLSPYSPVLKFFMVKSVIFLS
FWQGMLLAILEKCGAIPKIHSARVSVGEGTVAAGYQDFIICVEMFFAALALRHAFTYKVYADKRLDAQGRCAPMK
SISSSLKETMNP HDIVQDAIHNFS PAYQQYTQQSTLEPGPTWRGGAHGLSRSHSLSGARDNEKTLLLSDDDEF

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[illegible]

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FIGURE 6057

MPFFGNTFSPKKTPPRKSASLSNLHSLDRSTREVELGLEYGSPMTMNLAQSLKFENGQWIAETGVSGGVDRREVQ
RLRRRNQQLEENNNLLRLKVDILLDMLSESTAESHIMEKELDELRI SRKRK

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FIGURE 6058

GGCACGAGGCAGTCATGGCTGCCGCCGTCGCTGCTGCCGGTGCAGGGGAACCCAGTCCCCGGACGAATTGCTCC
CGAAAGGCGACGCGGAGAAGCCTGAGGAGGAGCTGGAGGAGGACGACGATGAGGAGCTAGATGAGACCCTGTGG
AGAGACTATGGGGCCTGACGGAGATGTTTCCGGAGAGGGTCCGGTCCGCGGCCGGAGCCACTTTTGATCTTTCCC
TCTTTGTGGCTCAGAAAATGTACAGGTTTTCCAGGGCAGCCTTGTGGATTGGGACCACTTCCTTTATGATCCTGG
TTCTTCCCGTTGTCTTTGAGACGGAGAAGTTGCAAATGGAGCAACAGCAGCAACTGCAGCAGCGGCAGATACTTC
TAGGACCTAACACAGGGCTCTCAGGAGGAATGCCAGGGGCTCTACCCTCACTTCCTGGAAAGATCTAGATTGTTA
TTGCTGTTTGAGCTGTCTCAGTGGGATAAGTTTGAAATTCAGTGTGTGAACTGCTGATAATTTGGATTTTTTTT
TTTTTAACCTTTGGCACATTGATCTATCTAAACCCGGTGGGGAGAATTATCCCCACATTGTCTCATGGAAAGACTC
AACTTGCAACTGTGCCCTCCACACTATCCTTACTTCTGTCTCCACTCTGATACCAGAGTGCAGCCATGCAGACGG
TTATTCCAGCTCTGGTCACCCGACTCCTTTTACCAAATTGCTCCTAACTGGAAGATCTCACTTTCCCTTGTGGG
GTAGGAACCGATGCCAGTGGGAGGGATGTGCCCTGACCATTACGACTGTTTTTTTTTTTTTTTTTAAAGAATG
GAGTTGTTGGGGCGGGACATGCACACAATGTGAAACAGACAAAATGCATTACACCTGTAGTGTAAGTGGCCACT
ATGAATCCCTATGTATGAGAGGAGGGAGGCAGGCTGCAGCTTCAGCCACAGAATGGGGACTATGGAAGACAGCAG
GAGCTCATTTCCTCTGCACATTTTGGCTGTTAGACCTGTGTGTGTGTTTAAAAAAGAGAAGTCAGTGCTCACTT
TTTGATTTTAAATATTAAAAATGATTCCAAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 6059

MAAAVAAAGAGEPQSPDELLPKGDAEKPEEELEEDDDEELDETLSERLWGLTEMFPERVRSAGATFDLSLFVAQ
KMYRFSRAALWIGTTSFMIILVLPVVFETEKLMQEQQQQLQQRQILLGPNTGLSGGMPGALPSLPGKI

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FIGURE 6060

ACTTTAAAGAGGGCTGCTCAACTGCAAGGACGCTGTAAGCAGGAAGAGAAGCCACAGCGCTTCAGAAAAGAGTGG
GACAGGGACAAGCATATCTAAGAGGCTGAACATGAATCCACAGATCAGAAACCCGATGAAGGCAATGTATCCAGG
CACATTCTACTTCCAATTTAAAAACCTATGGGAAGCCAACGATCGGAACGAAACTTGGCTGTGCTTCACCGTGGA
AGGTATAAAGCGCCGCTCAGTTGTCTCCTGGAAGACGGGCGTCTTCCGAAACCAGGTGGATTCTGAGACCCATTG
TCATGCAGAAAGGTGCTTCCTCTCTTGGTTCTGCGACGACATACTGTCTCCTAACACAAAGTACCAGGTCACCTG
GTACACATCTTGGAGCCCTTGCCCAGACTGTGCAGGGGAGGTGGCCGAGTTCCTGGCCAGGCACAGCAACGTGAA
TCTCACCATCTTCACCGCCCGCTCTACTACTTCCAGTATCCATGTTACCAGGAGGGGCTCCGCAGCCTGAGTCA
GGAAGGGGTCGCTGTGGAGATCATGGACTATGAAGATTTTAAATATTGTTGGGAAAACCTTTGTGTACAATGATAA
TGAGCCATTCAAGCCTTGGAAGGGATTAAAAACCAACTTTGACTTCTGAAAAGAAGGCTACGGGAGAGTCTCCA
GTGAGGGGTCTCCCTGGGCCCTCATGGTCTGTCTCCTCTAGCCTCCTGCTCATGCTGCACGGGCCTCCCCTCCACC
CTGGACCCGCTCTGTTTCTGCCTGGTCATCCTGAGCCCCCTCCTGGCCTCAGGGCCATTCCACAGTGCTCCCCTGC
CTCACCCTTCTCTCTCGCTCTTCCAGACTCTTCTGAGAGGCTCCTTTCTGCCTCCATGGCTATCCATCCACC
CCCACAGACCCCGTTCCCTCCAGCCTGCGTGCCCCTAACCTGGCTTTTCCCATCTCCCCAGCATAACCAAATCTTA
CTAAACTCATCCTAGGCTGGGCATGGTGACTCACGCCTGTAATCCCCCAGCAATTTGGGAGGCAAAGGTGGGAGA
ATCGCGTGAGCCCAGGAGTTCAGACCAGGCTGGGTCACATGACAAAGCCCCATCTCTACAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAG

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FIGURE 6061

CTCTACCGGCGGGATTGATGGCGTGATGTCTCACAGAAAGTTCTCCGCTCCCAGACATGGGTCCCTCGGCTTCC
TGCTTCGGAAGCGCAGCAGCAGGCATCGTGGAAGGTGAAGAGCTTCCCTAAGGATGACCCGTCCAAGCCGGTCC
ACCTCACAGCCTTCTCTGGGATACAAGGCTGGCATGACTCACATCGTGCGGGAAGTCGACAGGCCGGGATCCAAGG
TGAACAAGAAGGAGGTGGTGGAGGCTGTGACCATTGTAGAGACACCACCCATGGTGGTTGTGGGCATTGTGGGCT
ACGTGGAAACCCCTCGAGGCCTCCGGACCTTCAAGACTGTCTTTGCTGAGCACATCAGTGATGAATGCAAGAGGC
GTTTCTATAAGAATTGGCATAAATCTAAGAAGAAGGCCTTTACCAAGTACTGCAAGAAATGGCAGGATGAGGATG
GCAAGAAGCAGCTGGAGAAGGACTTCAGCAGCATGAAGAAGTACTGCCAAGTCATCCGTGTCATTGCCACACCC
AGATGCGCCTGCTTCTCTGCGCCAGAAGAAGGCCACCTGATGGAGATCCAGGTGAACGGAGGCACTGTGGCCG
AGAAGCTGGACTGGGCCCCGCGAGAGGCTTGAGCAGCAGGTACCTGTGAACCAAGTGTTTGGGCAGGATGAGATGA
TCGACGTATCGGGGTGACCAAGGGCAAAGGCTACAAAGGGGTACCAGTCGTTGGCACACCAAGAAGCTGCCCC
GCAAGACCCACCGAGGCCTGCGCAAGGTGGCCTGTATTGGGGCATGGCATCCTGCTCGTGTAGCCTTCTCTGTGG
CACGCGCTGGGCAGAAAGGCTACCATCACCGCACTGAGATCAACAAGAAGATTTATAAGATTGGCCAGGGCTACC
TTATCAAGGACGGCAAGCTGATCAAGAACAATGCCTCCACTGACTATGACCTATCTGACAAGAGCATCAACCCCTC
TGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATGACTTTGTATGCTGAAAGGCTGTGTGGTGGGAACCAAGA
AGCGGGTGCTCACCTCCGCAAGTCCTTGCTGGTGCAGACGAAGCGGCGGGCTCTGGAGAAGATTGACCTTAAGT
TCATTGACACCACCTCCAAGTTTGGCCATGGCCGCTTCCAGACCATGGAGGAGAAGAAAGCATTTCATGGGACCAC
TGAAGAAAGACCGAATTGCAAAGGAAGAAGGAGCTTAATGCCAGGAACAGATTTTGCAGTTGGTGGGGTCTCAAT
AAAAGTTATTTTCCACTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6062

MSHRKFSAPRHGSLGFLPRKRSSRHRGKVKSF PKDDPSKPVHLTAFLGYKAGMTHIVREVD RPGSKV NKKEVVEA
VTIVETPPMVVVGIVGYVETPRGLRTFKTVFAEHISDECKRRFYKNWHKS KKKAF TKYCKKWQDE DGKKQLEKDF
SSMKKYCQVIRVIAHTQMRLLEPLRQKK AHLMEIQVNGGTVAEKL DWARERLEQQVPVNQVFGQDE MIDVIGVT KG
KGYKGVTSRWHTKKLPRKTHRGLRKVACIGAWHPARVAFSVARAGQKGYHHRTEINKKIYKIGQGYLIKDGKLIK
NNASTDYDLSDKSINPLGGFVHYGEVTNDFVMLKGCVVGTKKRVLTLRKSLLVQTKRRALEKIDLKFIDTTSKFG
HGRFQTMEKKAFMGPLKKDRIAKEEGA

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FIGURE 6063

CCCGCAGGGGTTCTCCAAGATGGCGGCGCAGAGGAGGAGCTTGCTGCAGAGTGAGCAGCAGCCAAGCTGGACAG
ATGACCTGCCCTCTCTGCCACCTCTCTGGGGTTGGCTCAGCCTCCAACCGCAGCTACTCTGCTGATGGCAAGGGCA
CTGAGAGCCACCCGCCAGAGGACAGCTGGCTCAAGTTCAGGAGTGAGAACAACCTGCTTCTGTATGGGGTCTTCA
ACGGCTATGATGGCAACCGAGTGACCAACTTCGTGGCCCGAGCGGCTGTCCGAGAGCTCCTGCTGGGCCAGCTGA
ATGCCGAGCACGCCGAGGCCGATGTGCGGCGTGTGCTGCTGCAGGCCCTTCGATGTGGTGGAGAGGAGCTTCCTGG
AGTCCATTGACGACGCCCTTGGCTGAGAAGGCAAGCCTCCAGTCGCAATTGCCAGAGGGAGTCCCTCAGCACCAGC
TGCCCTCCTCAGTATCAGAAGATCCTTGAGAGACTCAAGACGTTAGAGAGGGAAATTCGGGAGGGGCCATGGCCG
TTGTGGCGGTCCTTCTCAACAACAAGCTCTACGTGCGCAATGTGCGGTACAAACCGTGCACTTTTATGCAAATCGA
CAGTGGATGGGTTGCAGGTGACACAGCTGAACGTGGACCACACCACAGAGAACGAGGATGAGCTCTTCCGTCTTT
CGCAGCTGGGCTTGGATGCTGGAAAGATCAAGCAGGTGGGGATCATCTGTGGGCAGGAGAGCACCCGGCGGATCG
GGGATTACAAGGTTAAATATGGCTACACGGACATTGACCTTCTCAGCGCTGCCAAGTCCAAACCAATCATCGCAG
AGCCAGAAATCCATGGGGCACAGCCGCTGGATGGGGTGACGGGCTTCTTGGTGTGATGTGCGAGGGGTTGTACA
AGGCCCTAGAGGCAGCCCATGGGCTGGGCAGGCCAACAGGAGATTGCTGCGATGATTGACACTGAGTTTGCCA
AGCAGACCTCCCTGGACGCAGTGGCCCGAGGCCGTCGTGGACCGGGTGAAGCGCATCCACAGCGACACCTTCGCCA
GTGGTGGGGAGCGTGCCAGGTTCTGCCCCGGCACGAGGACATGACCCTGCTAGTGAGGAACCTTGGCTACCCGC
TGGGCGAAATGAGCCAGCCACACCGAGCCAGCCAGCTGCAGGAGGACGAGTGTACCCTGTGTCTGTGCCAT
ACTCCAGCGCCAGAGCACCAGCAAGACAGCGTGACCCTCTCCCTTGTCATGCCCTCCAGGGCCAGATGGTCA
ACGGGGCTCACAGTGCTTCCACCCTGGACGAAGCCACCCCAACCCTCACCAACCAAGCCCCGACCTTAACCTGC
AGTCCACCAACACGCACACGCAGAGCAGCAGCTCCAGCTCTGACGGAGGCCTCTTCCGCTCCCGGGCCGCCACT
CGTCCCCGCTGGCGAGGACGGTCTGTGTTGAGCCCTATGTGGACTTGTCTGAGTTTTACCGCCTCTGGAGCGTGG
ACCATGGCGAGCAGAGCGTGGTGACAGCACCGTAGGGCAGCCGGAGAATGCAGCCCAAGCAGGGCCTGGCATGGG
GCAGGACAGGGTCCAGCCTTTTCTTAACATCTGCCTGTGCCACAACGGCCAGCAGGTGCCCATCTCTGCCAC
AGCAGACTCTGTCCCATGGCTCTCCGGGCTAGAGTGTGTGAGTGCAGACTGGACCTGTGGTTCATACCTTGTC
ACCACCCGGAAGCTGAAGGCCACTTCTCCAGATGGCCTCAGCCAGGACCATCGCCCTTCTCAGAGCAGAGG
GCCAGGTATAGAAACCGCAGTGGGCCTGCAAGCCGCCGAGCCTCCCGAGCAGCCTCTACAGAGCAGGAAGAGG
CGCCCTGTGAACCCTGAGTGTGTCAGGCCAGCCCTGCTGTCCCAAGCCACCCCTCTCCACCATCACC
TCCCTCACCTCGGGACAGTAGCCCTCCACTTCTCCAGCCTCTCAGCCCTGTGCTCCTGCATCCAGAGTGGAACCC
AGGCTGGTGTCCGCATCTGTCCCTGGGCCCCACCCCTGGACCTGCCTTGGTTGTGTCTGTGTAAACGTTCA
GGAGGACCAGGGCAGCATCTGGGGCCTGGGATGGCCACAGAAGGGGCAGGCCAGGTGGAAGGAGCCAGGGGGAA
GTGGTCTAAGAGACCTGGAAGTGCAGAGGATGGCGGCCCTGGGCTTCCCAGAGCCAGGCGTGCGGGAGAGGTGA
GGAAGTGGCCCCGGTGGGCTGAGGCAGGGGCCGCTGTGCTCAGGCCCTGAGCCAGGGTGAGCTGGTGCCTGCCTTGC
ATTTTCTTCTGGTGTGTGAAGACCATAGGCTGGCAGGCAGCTGAGATGAAGTGTCTTTACCACTGATGAGGGG
CCTCTGCCGGCTGAGGGTAGCAAGCAGGGGTTGTGAGTCAAGGCTGGGGGACTTGTGTTGAAAGAAAGAGGAGTGGA
AAATGGTTCCAGGAGGGAAGAGGTTCTTTGAGACACAGTACCCTGGGAGGCATAGGAGAAGGGTCGGGCCAGCCC
AGCCCAGGGCCTGAGTTAGACTATTTCCACATGTTCTCTGCCTTCAGTGGGGAGGGGGTGCCACCAGGGCTGTCTC
GGCCAGGATTGCCACTCCTGTTTCAGAGGAAGCAGGCCGAGAGACTTGACCTTGGCCAAGCCACACAATCAGTG
GGGAGCCAGAGCTCAGACCTGAGCCATTTTGTGAGTATCCAGGACCCCCGGATTCTCCACGCCCTCCCATCT
CCCAGTCTCCCTGCCCCCATGCCCCAGACCGGCCACAGGGACTAGCCGCTGTGCGACAGCCTCTGGGGTGTCT
TGGTCTCTGCGAAGTCAAAGGCCTGACAGCTCTGTGGCCTGGGAATCCATTTTCTGCGGCAGAGCAGGGCCTGG
TGTGGAACAGGGAGCTGTGGGAAGCCACAGCAGAAATGGAAGAAAAACAGGTCTCAGCCAGGGTCTCGCTCA
CTCCCTCACTCCCACTTTGAAGCCATCTCTGTTCTGCAGGTGAGAGGATTTAAAGTCAGTCACAAAGGCTTGGG
AACAAAGGAATTC

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FIGURE 6064

TGATGGGTGACCCGGGGAGAGGTACCCGGCCAGAGGCGAGTCCTGCGGAGTGGTAGCGCGCACGGCCTGCGGTGT
GACACCCAGCCCCCTGCCAGTCCCCCATGGCCCCGTGGAGCCGAGAGGCGGTGCTGAGTCTCTATCGGGCTCTGTT
GCGCCAGGGCCGACAGCTTCGCTACACTGATCGAGACTTCTACTTTGCCTCCATCCGCCGTGAATTCCGAAAAAA
TCAGAAGCTAGAGGACGCTGAGGCCCCGGGAGAGGCAGCTGGAGAAGGGCCTGGTCTTTCTCAACGGCAAATTGGG
GAGGATCATTTAGGATCCTCCAAGGGAAAGAGGACAAAGGTGCCTTCTGTAGACACTCCTGCTCTCTTCCATCCC
CATCTTACAGATGTATTAAGAAGCCTCAGATGAGCAATGGCAGGCGCTGGTGAGCGCAAAGGCAAGAAGGATGAC
AATGGCATTGGCACGGCCATTGACTTTGTGCTCTCCAATGCCCGGCTGGTGCTGGGGGTGGGTGGAGCGGCCATG
CTGGGCATCGCCACGCTGGCAGTTAAGCGGATGTACGATCGGGCGATCAGTGCCCTACCAGCCCCACCCGCTG
AGCCATTGCGGGGAAAAGGAGCTGGGAAGAACCCAACCTGGATGGGCTCCCCACGACTGCTGAACAGGGACATGAAG
ACGGGCGCTGAGCCGGTCTTGCAGACCCCTTCCACAGACTCCTCCACCTTCGACACAGATACATTCTGCCCGCCC
CGGCCCAAGCCAGTGGCCAGGAAGGGCCAGGTAGACTTGAAGAAGTCACGACTCCGCATGTCCCTGCAGGAGAAA
CTTCTTACTTACTACCGGAACCGGGCAGCCATCCCTGCTGGAGAGCAGGCTCGGGCCAAGCAAGCTGCTGTGGAC
ATATGTGCCGAGCTCCGGAGCTTCTGCGGGCCAAGTTGCCTGACATGCCGCTTCGGGACATGTACTTGAGTGGC
AGCCTCTACGATGACCTGCAGGTGGTGACAGCTGACCACATCCAACCTATTGTGCCCTTGTGCTGGAGCAGAAC
CTGTGGTCATGTATTCTTGGTGAAGACACCATCATGAATGTCCCTGGCTTCTTCTGGTGCGTCGTGAGAATCCA
GAGTACTTTCTCGTGGGAGCAGTTACTGGGACCGCTGTGTAGTAGGGGGCTACCTCTCTCCAAAGACAGTCGCA
GATACATTTGAGAAGGTAGTGGCTGGCTCCATCAATTGGCCAGCCATAGGGTCCCTCTTGGACTATGTGATCCGC
CCGGCCCCACCCCCAGAAGCCCTCACACTGGAGGTGCAGTATGAGCGTGACAAACATCTCTTCATTGACTTCCTG
CCATCAGTGACCTCGGTGACACAGTCTTGGTGGCCAAACCACACCGGCTAGCCCAGTATGACAACTGTGGCGG
CTGAGCCTGCGTCCCGGGAGACGGCACGCCTGCGGGCTCTGGACCAGGCTGACTCGGGCTGCCGATCTCTGTGC
CTCAAGATCCTCAAGGCCATATGCAAGTCCACCCCGGCTCTGGGCCACCTCACTGCCAGCCAGCTAACCAATGTC
ATCCTCCACTTGGCCCAGGAGGAGGCTGACTGGTCTCCGGATATGCTGGCCGACCGTTTCTGTCAGGCCTTGAGG
GGACTTATCAGCTACTTAGAGGCTGGAGTCTTCCAGTGCCCTAAACCCCAAGGACAAGGCCTTGAAGGAACGC
AGCCTTAGACATCAGGTGAGGATGATGGAGGTAGACAGTCGACTGAATGTCAGCTGGAAAATCCAGTCACTAGTT
GGGGTTTGGTGGCCATGTTTTCTACCCAGACAGGCCCTGCTTTTCTAGGATGTGGCCTTAGAGCAAGAACAGACC
CAACAGCCAGCCCTTCATCCTCCAGCGTCTGCCATAGGAATGTGAGAGGGGTGTTTGTGAGCGCTCCGGGCACG
GCCAGAGGGCAAGTGAGCATGCACGGACCTCTTCCCCCTGTCCTGTTTCTCACCAGCACCTGGGGAGATCGGTG
CTACCAAGGAAGAGAGCACACAGATAAGACAGAGGGGAGGAGGTGGGCATTTCTACATTCTCCTTGTTTGCCG
CTGCTGAGATTGCAGTATTTATTGCAATGTAAATGTATCCTGAAGGTGGGGAGGAATGTTTAATCTACCATGTCC
GTGTGTC

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FIGURE 6065

GAAAACTCAGGCTTGGAACAGCACCTCGCGCGATAACCTGGCGTCTCGGCCTTCACAATAAAAACTCTTCGCCG
GAAAACGACCTTTCCCCGCCCACTGCGCTGACACCGGAAGCGAGGCGTGTCTGGGAGATCACTCCGCGCTCCGGC
GGCGAAGGAAAGAACGGACTCTGATCATAGAAGCCTAGTAAAGTAGTACACCTCTCTCCTTTCTGTGAGGCCATAA
GAACAACTCCTTTTCTCGTCACAGCTACGCCCTGGGCATAAACGGTTGGGGCGTCAAAGGGAGGGAGGGAAGGG
AGCGGGCGGGAGGAGACGGTCACGTGGTCGCGGCGGAAGGATGCGTCTGTGCTGCGTCCCCATAGAGACGAAGTC
TATAAAGGGCCGGCGGGCGGCCACGGCAGCCATTTCTACTTTGCCCCGCCACAGATGTAGTTTTCTCTGCGCGTG
TGCGTTTTCCCTCCTCCCCGCCCTCAGGGTCCACGGCCACCATGGCGTATTAGGGGCAGCAGTGCCGTGCGGCAGC
ATTGGCCTTTGCAGCGGCGGCAGCAGCACCAGGCTCTGCAGCGGCAACCCCCAGCGGCTTAAGCCATGGCCAGCG
TTGCTGTAACCGACAAAGACACCTTCGAATTAAGCACATTCTCGATTCCAGCAAAGCACCAGCAACATGACCGAA
ATGAGCTTCTGAGCAGCGAGGTGTTGGTGGGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAA
GAAAGCCTAGGTCTCTTAGATGATTACCTGGAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGCGACAAG
GCTAAGGCGGGCTCCTCCGAATGGCTGGCTGTGGATGGGTTGGTCAGTCCCTCCAACAACAGCAAGGAGGATGCC
TTCTCCGGGACAGATTGGATGTTGGAGAAAATGGATTTGAAGGAGTTCGACTTGGATGCCCTGTTGGGTATAGAT
GACCTGGAACCATGCCAGATGACCTTCTGACCACGTTGGATGACACTTGTGATCTCTTTGCCCCCTAGTCCAG
GAGACTAATAAGCAGCCCCCCCAGACGGTGAACCCAATTGGCCATCTCCAGAAAAGTTTAACAAAACCCGACCAG
GTTGCCCCCTTACCTTCTTACAACCTCTTCCCCCTTTCCCCAGGGGTCTGTCTCCACTCCAGATCATTCCTTT
AGTTTAGAGCTGGGCAGTGAAGTGGATATCACTGAAGGAGATAGGAAGCCAGACTACACTGCTTACGTTGCCATG
ATCCCTCAGTGCATAAAGGAGGAAGACACCCCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTAT
CTGGGGTCTCCTCAGCACAGCCCCCTTACCAGGGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGT
GGGTCTGCCGTCCCAAACCTTACGATCCTCCTGGAGAGAAGATGGTAGCAGCAAAGTAAAGGGTGAGAACTG
GATAAGAAGCTGAAAAAATGGAGCAAAACAAGACAGCAGCCACTAGGTACCGCCAGAAGAAGAGGGCGGAGCAG
GAGGCTCTTACTGGTGAGTGCAAGAGCTGAAAAAGAAGAACGAGGCTCTAAAGAGAGGGCGGATTCCCTGGCC
AAGGAGATCCAGTACCTGAAAGATTTGATAGAAGAGGTCCGCAAGGCAAGGGGAAGAAAAGGGTCCCCTAGTTG
AGGATAGTCAGGAGCGTCAATGTGCTTGTACATAGAGTGCTGTAGCTGTGTGTTCCAATAAATTATTTTGTAGGG
AAAGT

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FIGURE 6066

GTCGGTCGCAGCCCGCTCGGGCCCGTTGCGCCCCGTCTGTGCGCCACGTCCCGCGGGGTGGCGGGCGCGCTGCG
GCCCTTGGTGCAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGAAGCGGCCCTTCCTCAGCCG
GGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCTTTGGTCGCCTCCGTGGGCCTCAATGTCCCTGCTTCTGTTTG
TTATTCCACACAGACGTCAAGGTGCCTGACTTCTCTGAATACCGCCGCTTGAAGTTTTAGATAGTACGAAGTC
TTCAAGAGAAAGCACCAGGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAACTACTGTGGGTGTCGCATA
TGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATGTGTTGGCCCTGGCGAAAAT
CGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAGGCAAACCCCTGTTTGTACG
TCATAGAACCCAGAAGGAAATTAAGCAGGAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCT
AGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTTGAAGTCACTCTTGGTTGTGTACCCATTGCAAA
TGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTACACTATGATGCATCTGGCAGGATCAGATTGGG
TCCTGCTACTCTCAACCTTGAAGTCCCCACGTATGAGTTACCCAGTGACGATATGGTGATTGTTGGTTAGAGACT
TGGACTCAAGTCATAGGCTTCTTTCAGTCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACT
TGAAGTTGATTTGAAATATGTAAGAATTGATGATGTATTGCAAACATTAATGTGAAATAAATTGAATTTAATGT
TGAATACTTTTCAAGCATTCACTTAATAAAGCCACTGTTAAGCACTGTTATGCTCAGTCATACACGCGAAAGGTAC
AACGTCTTTTAGCTAATTCTAATTAAAAATTACAGACTGGTGTACAAGATACTTGTG

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FIGURE 6067

MSASADVLALAKIEIKLSDIPEGKNMAFKWRGKPLFVRHRTQKEIKQEAAVELSQLRDPQHDLDRVKKPEWVILI
GVCTHLGCVP IANAGDFGGYYCPCHGSHYDASGRIRLG PATLNLEVPTYEFTSDDMVIVG

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FIGURE 6068

CCATGGCGGCTGGAGGCGATCATGGTTTCGCCCCGACAGCTACCGCTCACCTCTTGCTCCCGCTATGCCAGCCCCGG
AGATGTGCTTCGTGTTTAGCGACAGGTATAAAATTCGGGACATGGCGGCAGCTGTGGCTGTGGCTGGCGGAGGCCG
AGCAGACATTGGGTTTGCCTATCACAGATGAACAAATCCAGGAGATGAAATCAAACCTGGAGAACATAGACTTCA
AGATGGCAGCTGAGGAAGAGAAACGTTTACGACATGATGTGATGGCTCACGTGCACACATTTGGCCACTGCTGTC
CAAAAGCTGCAGGCATTATTACCTTGGTGCTACTTCTTGCTATGTTGGAGACAATACTGACTTGATTATTCTTA
GAAATGCACTTGACCTGCTTTTGCCAAAAGCTTGCCAGAGTGATCTCTCGGCTTGCCGACTTTGCTAAGGAACGAG
CCAGTCTACCCACATTAGGTTTACACATTTCCAGCCTGCACAGCTGACCACAGTTGGGAAACGTTGCTGTCTTT
GGATTGAGGATCTTTGCATGGATCTCCAGAACTTGAAGCGTGTCCGAGATGACCTGCGCTTCCGGGGAGTAAAGG
GTACCACTGGCACTCAGGCCAGTTTCTGTCAGCTCTTTGAGGGAGATGACCATAAGGTAGAGCAGCTTGACAAGA
TGGTGACAGAAAAGGCAGGATTTAAGAGAGCTTTTCATCATCACAGGGCAGACATATACAGAAAAGTGGATATTG
AAGTACTGTCTGTGCTGGCTAGCTTGGGGGCATCAGTGCACAAGATTTGCACCGACATACGCCTCCTGGCAAACC
TCAAGGAGATGGAGGAACCCCTTTGAAAAACAGCAGATTGGCTCAAGTGCATGCCATATAAGCGGAATCCCATGC
GTTTCAAGCGTTGCTGCAGTCTTGCCCGCCACCTGATGACCTTGTGATGGACCCGCTACAGACAGCATCTGTCC
AGTGGTTTGAACGCACACTGGATGATAGTGCCAAACCGACGGATCTGTTTGGCCGAGGCATTTCTTACCGCAGATA
CTATATTGAATACGCTGCAGAACATTTCTGAAGGATTGGTCGTGTACCCCAAAGTAATTGAACGGCGCATTTCGGC
AAGAGCTGCCTTTTCATGGCCACAGAGAACATCATCATGGCCATGGTCAAAGCTGGAGGTAGCCGCCAGGATTGCC
ATGAGAAAATCAGAGTGCTTTCTCAGCAGGCAGCTTCTGTGGTTAAGCAGGAAGGGGGTGACAATGACCTCATAG
AGCGTATCCAGGTTGATGCCTACTTCAGTCCCATTCACTCCCAGTTGGATCATTTACTGGATCCTTCTTCTTTCA
CTGGTCGTGCCTCCCAGCAGGTGCAGAGATTCTTAGAAGAGGAGGTGTATCCCCTGTTAAACCATATGAAAGCG
TGATGAAGGTGAAAGCAGAATTATGTCCTGAGAGTTGGAAGAGAATTAAACGAAAATCATTGTTAATTGCTGAGG
CATGAAAATTGTGTTACTATAACGCCTTATTTACCTCGAGAATTGTTACCTTAAATTAGTACAGCACTTTCTTC
TTCCCATGGTGCTTTCCTGTTTCTCAGTCTCACATTCTCAACAAGGCAAAAACAAAGAGCGTTGAAGTTGACTC
TGCTCTTGATAGTAAATGTAGTTCATACTTGAAAAA

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FIGURE 6069

MAAGGDHGSPDSYRSPLASRYASPEMCFVFS DRYKFRTWRQLWLWLAEAEQTLGLPITDEQIQEMKSNLENIDFK
MAAEEKRLRHDVMAHVHTFGHCCPKAAGIIHLGATSCYVGDNTDLII LRNALDLLLLPKLARVISRLADFAKERA
SLPTLGFTHFQPAQLTTVGKRCCLWIQDLCMDLQNLKRVRDDLRFGRGVKGTTGTQASFLQLFEGDDHKVEQLDKM
VTEKAGFKRAFIITGQTYTRKVDIEVLSVLASLGASVHKICTDIRLLANLKEMEPEFEKQQIGSSAMPYKRNP MR
SERCCSLARHMLTLVMDPLQTASVQWFERTLDDSANRRICLAEAFLTADTILNTLQNI SEGLVVYPKVIERRIQ
ELPFMATENIIMAMVKAGGSRQDCHEKIRVLSQQAASVVVKQEGGDNDLIERIQVDAYFSP IHSQLDHLLDPSSFT
GRASQQVQRFLEEEVYPLLKPYESVMKVKAELCL

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FIGURE 6070

GGGTGGGAGGAGCCAGCGGGCCGGGAGGTTCTAGTCTGTTCTGTCTTGCGGCAGCCGCCCCCTTCTGCGCGGTCA
CGCCGAGCCAGCGCCTGGGCTTGAACCGGGCCGTAGCCCCCCCCAGTTTCGCCCCACCACCTCCCTACCATGGACC
CCCGCAAAGTGAACGAGCTTCGGGCTTTGTGAAAAATGTGTAAGCAGGATCCGAGCGTTCTGCACACCGAGGAAA
TGCGCTTCCTGAGGGAGTGGGTGGAGAGCATGGGTGGTAAAGTACCACCTGCTACTCAGAAAGCTAAATCAGAAG
AAAATACCAAGGAAGAAAAACCTGATAGTAAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGG
AAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAA
ATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATG
GTGAACCTCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGGCCATTTTGTATGCCA
AGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAATGCTGCCATCCGAGACTGTGACAGAGCCATTGAAATAA
ATCCTGATTACAGCTCAGCCTTACAAGTGGCGGGGGAAAGCACACAGACTTCTAGGCCACTGGGAAGAAGCAGCCC
ATGATCTTGCCCTTGCCGTGTAATTTGGATTATGATGAAGATGCTAGTGCAATGCTGAAAGAAGTTCAACCTAGGG
CACAGAAAATTGCAGAACATCGGAGAAAGTATGAGCGAAAACGTGAAGAGCGAGAGATCAAAGAAAGAATAGAAC
GAGTTAAGAAGGCTCGAGAAGAGCATGAGAGAGCCCAGAGGGAGGAAGAAGCCAGACGACAGTCAGGAGCTCAGT
ATGGCTCTTTTCCAGGTGGCTTTCCTGGGGGAATGCCTGGTAATTTTCCCGGAGGAATGCCTGGAATGGGAGGGG
GCATGCCCTGGAATGGCTGGAATGCCTGGACTCAATGAAATTTCTAGTGATCCAGAGGTTCTTGCAGCCATGCAGG
ATCCAGAAGTTATGGTGGCTTTCAGGATGTGGCTCAGAACCAGCAAATATGTCAAATACCAGAGCAACCCAA
AGGTTATGAATCTCATCAGTAAATTGTCAGCCAAATTTGGAGGTCAAGCGTAAATGTCCTTCTGATAAATAAAGCC
CTTGCTGAAGGAAAAGCAACCTAGATCACCTTATGGATGTGCAATAATACAAACCAGTGACCTCTGACCTTCT
CATCAAGAGAGCTGGGGTGCTTTGAAGATAATCCCTACCCCTCTCCCCCAAATGCAGCTGAAGCATTTTACAGTG
GTTTGCCATTAGGGTATTCATTAGATAATGTTTTCTACTAGGAATTACAACTTTAAACACTTTTTAAATCTT
CAAAATATTTAAACAAATTTAAAGGGCCTGTTAATCTTATATTTTCTTTACTAATCATTTTGGATTTTTTC
TTTGAATTATTGGCAGGGAATATACTTATGTATGGAAGATTACTGCTCTGAGTGAATAAAAGTTATTAGTGCGA
GGCAAACATAACTCATTGAGGATAAAGTTTGTGTTGGATATGTGGTTCCTGATGCATTTTGACTTGTCTTTTA
AATGCTTTATCTTTTTCTTTAAAGATTATTTCAATAAACTAATTGGGACCACCGTATTTTCAGTAGGACCTGG
GTAGGGAATTGGAAGTACTTGGCAGGGCAGCAGCAATCTTGCTGTGTTTGATATAACATGCATCCTTGGGCAGGTT
GCCCTTAAATCTTACACTGTGGTGAAGGGATGTTTTTTTGTAAATGCTGCAGTAGAGTTGGAGTACTTAGTTCTC
TTGTTGTCAGTATATCTAATAAGTGTTTTTCATATTATTTCCACGTAAGGGAAATAAGGTAGTACTTTTCTTTT
TATATTTCTATGCTTAAATCTCTTTCTAGTCAAAAATTGCCCAAATCTGTGTTTGCTTTCTGCTTGCTACAT
TTGTCTCCCTTACTTTTCTTGAGCTAAAGACAGGCTTTTCCACCGCATCATCACTGCTATCATCATTAAACAGC
GTAATTATACAAGCATATTTAATGCTGAGTTTAAATTTAATATGTAATACATATGGTAATTGTAGGGTAATACCCA
CAACAACCTGTAGTTTCTTACTTGGCCAAGAGAATGCTTATTTAAGTGTTAGACTTCCATTCTGGCAAAATCTTGC
CTTATCAGAAGACATTGGAAAGAGGGATTCCCTTTGGTGTTTGGTCTTCTACTTAGAAAAACCTATTGCAGTTAG
TTTATCTTGTAGTATTCTCTTTGTATTCTGAAGATAAGGTTTGAATTAAATTGATACACAGAGGGGAACCGA
TTTTTTTTATCCAATGTGAATTATAAATGAGATAATCCACAGTTATTCAATTGTGGAGTTGTTGAGACTATGAAAG
ACTCATTGTCTTTGTATTGAGCTCTTAAATAGTGTAACATATCCCCACCTCTGCTTGCTTTCTTTCCCTCCCT
CCAATGATAAAGAAAATGATAAATTTTCTGTTGTGCATTCAATTCTTATTTTAAATAAGACTAAGTATAGGCATT
GTACCTGACATTGCTACGTTTCTACAGTGTTTCAATTTAAAGTGCTAGTGTTTAAAAACATTTTCAAGGGATAA
GGCCTTCTGTACTTTGCTTATTTGAAGAATCAGTGGTAGGAGCAGTGAAGTAAATCTATGGAGTACATTTCTAA
AATACCACATTTCTGAAATCATAAATAAGTTTATTCAAGTTCTAACCTTTGCTGTACACAAGCAGACAGAAATG
CATCTGTTACATAAATGAGAAAAAGCTATTATGCTGATGGAGCATGCTTTTTAAATCCTTTAAAAACACTCACCA
TATAAATTGCAATTTGAGCTTGTGTGTTCTTTTGTAAATGTGTAGAGTTCTCCTTTCTCGAAATTGCCAGTGTGT
ACTTGGCTTAACTCAAGAACAGTTTCTTCTGGATTCTTATTTGATTTATTTAACCTAATTATATTCTAATATTG
CAAATATTACCATAAGTGGGTAAGTAAATTCCTCTCTGAAAAA

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FIGURE 6071

MDPRKVNELRAFVKMCKQDPSVLHTEEMRFLREWVESMGGKVPPATQKAKSEENTKEEKPDSKKVEEDLKADEPS
SEESDLEIDKEGVIEPDTDAPOEMGDENAEITEEMMDQANDKKVAAIEALNDGELQKAIDLFTDAIKLNRLAIL
YAKRASVFKLQKPNAAIRDCDRAIEINPDSAQPYKWRGKAHRLLGHWEEAAHDLALACKLDYDEDASAMLKEVQ
PRAQKIAEHRRKYERKREEREIKERIERVKKAREEHERAQREEEARRQSGAQYGSFPGGFPGMPGNFPGMPGM
GGMPGMAGMPGLNEILSDPEVLAAMQDPEVMVAFQDVAQN PANMSKYQSNPKVMNLI SKLSAKFGGQA

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FIGURE 6072

CCCAAAATGGCGGCAGCGATGGATGTGGATACCCCGAGCGGCACCAACAGCGGCGCGGGCAAGAAGCGCTTTGAA
GTGAAAAAGTGGAATGCAGTAGCCCTCTGGGCCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGGAACCAC
ATTATGGATCTTTGCATAGAATGTCAAGCTAACCAGGCGTCCGCTACTTCAGAAGAGTGTACTGTTCGCATGGGGA
GTCTGTAACCATGCTTTTCACTTCCACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACAAC
AGAGAGTGGGAATTCCAAAAGTATGGGCACTAGGAAAAGACTTCTTCCATCAAGCTTAATTGTTTTGTTATTCAT
TTAATTGACTTTCCCTGCTGTTACCTAATTACAAATTGGATGGAAGTGTGTTTTTTCTGCTTTGTTTTTTCAGT
TTGCTGTTTCTGTAGCCATATTGTATTCTGTGTCAAATAAAGTCCAGTTGGATTCTGG

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FIGURE 6073

MAAAMDVDTPSGTNSGAGKKRFEVKKWNAVALWAWDIVVDNCAICRNHIMDLCECQANQASATSEECTVAWGVC
NHAFHFHCISRWLKTRQVCPLDNREWEFQKYGH

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FIGURE 6074

GCTCTTTCTCAGTGACCGGGTTCTAGGCTTAGGCGCAGACGGGTTAGGGGAGCCAACATGCCAGTGGCCCGGAGC
TGGGTTTGTGCGCAAACTTACGTGACCCCGCGGAGATCCTTTGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTG
ATCGAAGAGTATGGGCTCCGGAATAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATAGAGGATTTC
TTAGAGAGACGCCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATC
CGCCAGCGCCATTTCAAGGTCCGCAAGCAGGTGGTGAACATCCCGTCTTCATTGTCCGCCTGGATTCCCAGAAG
CACATCGACTTCTCTCTGTGCTCTCCCTATGGGGGTGGCCGCGCGGCGCGTGAAGAGGAAGAATGCCAAGAAG
GGCCAGGGTGGGGCTGGGGCTGGAGACCACAAGGAGGAGGATTAAGCCACCTGTCCCTCCTGGGCTGCTGCATT
GTCTAGTTTTCTGCCAAATAAACAGGATCAGCGCTTTAAAAAAAAAAAAA

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FIGURE 6075

ATGGCCTCGGAAGACATTGCCAAGCTGGCAGAGACACTTGCCAAGACTCAGGTGGCCGGGGGACAGCTGAGTTTC
AAAGGCAAGAGCCTCAAACCTCAACACTGCAGAAGATGCTAAAGATGTGATTAAAGAGATTGAAGACTTTGACAGC
TTGGAGGCTCTGCGTCTGGAAGGCAACACAGTGGGCGTGGAAGCAGCCAGGGTCATCGCCAAGGCCTTAGAGAAG
AAGTCGGAGTTGAAGCGCTGCCACTGGAGTGACATGTTACGGGAAGGCTGCGGACCGAGATCCCACCAGCCCTG
ATCTCACTAGGGGAAGGACTCATCACAGCTGGGGCTCAGCTGGTGGAGCTGGACTTAAGCGACAACGCATTTCGGG
CCCAGCGGTGTGCAAGGCTTCGAGGCCCTGCTCAAGAGCTCAGCCTGCTTCACCCTGCAGGAACCTCAAGCTCAAC
AACTGTGGCATGGGCATTGGCGGGCGGCAAGATCCTGGCTGCAGCTCTGACCGAATGTCACCGGAAATCCAGTGCC
CAAGGCAAGCCTCTGGCCCTGAAGGTCTTTGTGGCTGGCAGAAACCGTCTGGAGAATGATGGCGCCACTGCCTTG
GCAGAAGCTTTTAGGGTCATCGGGACCCCTGGAGGAGGTCCACATGCCACAGAATGGGATCAACCACCCTGGCATC
ACTGCCCTGGCCCAGGCTTTTCGCTGTCAACCCCTGCTGCGGGTCATCAACCTGAATGACAACACCTTCACTGAG
AAGGGCGCCGTGGCCATGGCCGAGACCTTGAAGACCTTGCGGCAGGTGGAGGTGATTAATTTGGGGACTGCCTG
GTGCGCTCCAAGGGTGCAAGTTGCCATTGCAGATGCCATCCGCGGCGGCCTGCCAAGCTAAAGGAGCTGAACTTG
TCATTCTGTGAAATCAAGAGGGATGCTGCCCTGGCTGTTGCTGAGGCCATGGCAGACAAAGCTGAGCTGGAGAAG
CTGGACCTGAATGGCAACACCCCTGGGAGAAGAAGGCTGTGAACAGCTTCAGGAGGTGCTGGAGGGCTTCAACATG
GCCAAGGTGCTGGCGTCCCTCAGTGATGACGAGGACGAGGAGGAGGAGGAGGAAGGAGAAGAGGAAGAAGAGGAA
GCAGAAGAAGAGGAGGAGGAAGATGAGGAAGAGGAGGAAGAAGAGGAGGAGGAGGAGGAAGAAGAGCCTCAGCAG
CGAGGGCAGGGAGAGAAGTCAGCCACGCCCTCACGGAAGATTCTGGACCCTAACACTGGGGAGCCAGCTCCCGTG
CTGTCTCTCCACCTCCTGCAGACGTCTCCACCTCCTGGCTTTCCCTCTCCAGAGAAGCTCCTGCGCCTAGGG
CCCAAGAGCTCCGTGCTGATAGCCAGCAGACTGACACGTCTGACCCCGAGAAGGTGGTCTCTGCCTTCCTAAAG
GTGTCATCTGTGTTCAAGGACGAAGCTACTGTGAGGATGGCAGTGACAGGATGCAGTAGATGCCCTGATGCAGAAG
GCTTTCAACTCCTCGTCCTTCAACTCCAACACCTTCCTCACCAGGCTCCTCGTGACATGGGTCTGCTCAAGAGT
GAAGACAAGGTCAAGGCCATTGCCAACCTGTACGGCCCCCTGATGGCGCTGAACCACATGGTGCAGCAGGACTAT
TTCCCCAAGGCCCTTGACCCCTGCTGCTGGCGTTCGTGACCAAGCCCAACAGCGCCCTGGAATCCTGCTCCTTC
GCCCGCCACAGTCTGCTGCAGACGCTGTACAAGGCT**TAG**

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FIGURE 6076

MASEDIAKLAETLAKTQVAGGQLSFKGKSLKLNTAEDAKDVIKEIEDFDSLEALRLEGNTVGVEAARVIAKALEK
KSELKRCHWSDMFTGRLRTEIPPALISLGEGLITAGAQLVELDLSDNAFGPDGVQGFEALLKSSACFTLQELKLN
NCGMGIGGGKILAAALTECHRKSSAQGKPLALKVVFVAGRNRENDGATALAEAFRVIGTLEEVMHPQNGINHPI
TALAQAFVNPILLRVINLNDNTFTEKGAVAMAETLKTLRQVEVINFGDCLVRSKGAVAIADAIRGGLPKLKELNL
SFCEIKRDAALAVAEAMADKAELEKLDLNGNTLGEEGCEQLQEVLEGFNMKVLAASLDDDEEEEEEEEEEEEEEE
AEEEEEEDEEEEEEEEEEEEEEEEPQQRGQGEKSATPSRKILDPNTGEPAPVLSSPPPADVSTFLAFPSPEKLLRLG
PKSSVLIAQQTDTSDEKVVSAFLKVSSVFKDEATVRMAVQDAVDALMQKAFNSSSFNSNTFLTRLLVHMGLLKS
EDKVKAIANLYGPLMALNHMVQODYFPKALAPLLAFVTKPNSALESCSFARHSLLOTLYKV

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FIGURE 6077

CGGGAGGCGAGGTGCGCGAGCCGAGTCCGGGGCACGATGTCCGACGCGGGCGGGCGGAAAGAAGCCGCCTGTGGAC
CCGCAGGCAGGACCCGGTCCGGGGCCGGGGCGCGCAGCTGGGGAAAGGGGCCTGTCTGGGGTCCTTCCCCCTGGTC
CTGAAGAAGCTGATGGAGAACCCCCCGCGCGAGGCGCGCCTCGATAAGGAAAAGGGGAAGGAAAAGCTGGAGGAG
GACGAGGCGCGAGCCGCCAGCACCATGGCTGTCTCAGCCCTCCCTCATGCCACCCATCTGGGACAAGACCATCCCA
TATGATGGCGAATCTTTCCACCTGGAGTACATGGACCTGGATGAGTTCCTGCTGGAGAATGGCATCCCCGCCAGC
CCCACCCACCTGGCCCCACAACCTGCTGCTGCCTGTAGCAGAGCTAGAAGGGAAGGAGTCTGCCAGCTCTTCCACA
GCATCCCCACCATCCTCCTCCACTGCCATCTTTAGCCCTCTGAAACCGTGTCCAGCACAGAATCTTCCCTGGAG
AAGGAGAGGGGAGACTCCAGTCCCATCGACCCCAATTGTGTGGAAAGTGGATGTGAACTTCAATCCGGACCCCGCC
GACCTGGTGCTCTCCAGTGTGCCAGGCGGGGAGCTCTTCAACCCTCGGAAGCACAAGTTTGCTGAGGAGGACCTG
AAGCCCCAGCCTATGATCAAAAAGGCCAAGAAGGTCTTTGTCCCCGACGAGCAGAAGGATGAAAAGTACTGGACA
AGACGCAAGAAGAACAACGTGGCAGCTAAACGGTCACGGGATGCCCGGCGCCTGAAAGAGAATCAGATCACCATC
CGGGCAGCCTTCCTGGAGAAGGAGAACACAGCCCTGCGGACGGAGGTGGCCGAGCTACGCAAGGAGGTGGGCAAG
TGCAAGACCATCGTGTCCAAGTATGAGACCAAATACGGGCCCTTGTAACCCGTGCCCCCGCCCGGGCGGGGTAC
TGCTGCACCTCAGACCTCTGCCTG

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FIGURE 6078

MSDAGGGKKPPVDPQAGFGPGPGRAAGERGLSGSFPLVLKKLMENPPREARLDKEKGKEKLEEDEAAAASTMAVS
ASLMPPIWDKTIPYDGESFHLEYMDLDEFLLENGIPASPTHLAHNLLLPVAELEGKESASSSTASPPSSSTAIFQ
PSETVSSTESSLEKERETPSPIDPNCVEVDVNFNPDADLVLSVPGGELFNPRKHKFAEEDLKPQPMIKKAKKV
FVPDEQKDEKYWTRRKNNVAAKRSRDARRLKENQITIRAAFLEKENTALRTEVAELRKEVGKCKTIVSKYETKY
GPL

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FIGURE 6079

CATCTTTGTCACTGCACAAAATCGCGCCCTACAGCCTACTGGTGA CTCTGGCTGCAGAAAGCTCTGGGTGTGCGGC
AGTACCATGTGGCCTCAGTCCTGTGCCAACGGGCCAAGGTGGCGATGAGCCACTTTGAGCCCAACGAGTACATCC
ATTATGACCTGCTAGAGAAGAACATTAACTTGTTCGCAAACGACTGAACCGGCCGCTGACACTCTCGGAGAAGA
TTGTGTATGGACACCTGGATGACCCCGCCAGCCAGGAAATTGAGCGAGGCAAGTCGTACCTGCGGCTGCGGCCGG
ACCGTGTGGCCATGCAGGATGCGACGGCCAGATGGCCATGCTCCAGTTTCATCAGCAGCGGGCTGTCCAAGGTGG
CTGTGCCATCCACCATCCACTGTGACCATCTGATTGAAGCCCAGGTTGGGGGCGAGAAAGACCTGCGCCGGGCCA
AGGACATCAACCAGGAAGTTTATAATTTCTGGCAACTGCAGGTGCCAAATATGGCGTGGGCTTCTGGAAGCCTG
GATCTGGAATCATTACACAGATTATTCTGGA AAACTATGCGTACCCTGGTGTCTTCTGATTGGCACTGACTCCC
ACACCCCAATGGTGGCGGCCTTGGGGGCATCTGCATTGGAGTTGGGGGTGCCGATGCTGTGGATGTCATGGCTG
GGATCCCTGGGAGCTGAAGTGCCCCAAGGTGATTGGCGTGAAGCTGACGGGCTCTCTCTCCGGTTGGTCTCAC
CCAAAGATGTGATCCTGAAGGTGGCAGGCATCCTCACGGTGAAAGGTGGCACAGGTGCAATCGTGAATACACG
GGCTGGTGTAGACTCCATCTCCTGCACTGGCATGGCGACAATCTGCAACATGGGTGCAGAAATTGGGGCCACCA
CTTCCGTGTTCCCTTACAACCACAGGATGAAGAAGTACCTGAGCAAGACCGGCCGGGAAGACATTGCCAATCTAG
CTGATGAATCAAGGATCACTTGGTGCCTGACCCTGGCTGCCATTATGACCAACTAATTGAAATTAACCTCAGTG
AGCTGAAGCCACACATCAATGGGCCCTTACCCCTGACCTGGCTCACCCTGTGGCAGAAAGTGGGCAAGGTGGCAG
AGAAGGAAGGATGGCCTCTGGACATCCGAGTGGGTCTAATTGGTAGCTGCACCAATTCAAGCTATGAAGATATGG
GGCGCTCAGCAGCTGTGGCCAAGCAGGCACTGGCCCATGGCCTCAAGTGCAAGTCCAGTTACCATCACTCCAG
GTTCCGAGCAGATCCGCGCCACCATTGAGCGGGACGGCTATGCACAGATCTTGAGGGATCTGGGTGGCATTGTCC
TGGCCAATGCTTGTGGCCCTGCATTGGCCAGTGGGACAGGAAGGACATCAAGAAGGGGGAGAAGACACAATCG
TCACCTCCTACAACAGGAACCTTACGGGGCCGCAACGACGCAAACCCCGAGACCCATGCCTTTGTACGTCCCCAG
AGATTGTACAGCCCTGGCCATTGCGGGAACCCCTCAAGTTCAACCCAGAGACCGACTACCTGACGGGCACGGATG
GCAAGAAGTTTAGGCTGGAGGCTCCGGATGCAGATGAGCTTCCCAAAGGGGAGTTTGACCCAGGGCAGGACACCT
ACCAGCACCCACCCAAGGACAGCAGCGGGCAGCATGTGGACGTGAGCCCCACCAGCCAGCGCCTGCAGCTCCTGG
AGCCTTTTGAACAAGTGGGATGGCAAGGACCTGGAGGACCTGCAGATCCTCATCAAGGTCAAAGGGAAGGTGTACCA
CTGACCACATCTCAGCTGCTGGCCCTGGCTCAAGTTCCGTGGGCACTTGGATAACATCTCCAACAACCTGCTCA
TTGGTGCCATCAACATTGAAAACGGCAAGGCCA ACTCCGTGCGCAATGCCGTCACTCAGGAGTTTGGCCCCGTCC
CTGACACTGCCCCGCTACTACAAGAAACATGGCATCAGGTGGGTGGTGATCGGAGACGAGAACTACGGCGAGGGCT
CGAGCCGGGAGCATGCAGCTCTGGAGCCTCGCCACCTTGGGGGCCGGGCCATCATCACCAGAGCTTTGCCAGGA
TCCACGAGACCAACCTGAAGAAACAGGGCCTGCTGCCTCTGACCTTCGCTGACCCGGCTGACTACAACAAGATT
ACCTGTGGACAAGCTGACCATTCAGGGCCTGAAGGACTTACCCCTGGCAAGCCCCCTGAAGTGCATCATCAAGC
ACCCCAACGGGACCCAGGAGACCATCCTCCTGAACACACCTTCAACGAGACGCAGATTGAGTGGTTCCGCGCTG
GCAGTGCCCTCAACAGAATGAAGGAAGTGAACAGTGAAGGCAAGTGCCTCCCCCGCGCTGGCGTCAAGTTAG
CTCCACGTGTGCCATCAGTGGATCCGATCCGTCCAGCCATGGCTTCCTATTCCAAGTAGTGTAACCC

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FIGURE 6080

MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRKRLNRPLTLSEKIVYGHLD
DPASQEIERGKSYLRLRPDRVAMQDATAQMAMLQFISSGLSKVAVPSTIHCDHLIEAQVGGEKDLRRAKDINQEV
YNFLATAGAKYGVGFWKPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDVMAGIPWELK
CPKVI GVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPGVDSISCTGMATICNMGAIEGATTSVFPYN
HRMKKYLSTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWPL
DIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGIVLANACGP
CIGQWDRKDIKKGEKNTIVTSYNRNFTGRNDANPETHAFVTSPEIVTALAIAGTLKFNPETDYLTGTDGKKFRLE
APDADELPGGEFDPGQDTYQHPPKDSSGQHVDSPTSQRLQLLEPFDKWDGKDLEDLQILIKVKGKCTTDHISAA
GPWLKFRGHLDNISNNLLIGAINIENGKANSVRNAVTOEFGVPDTARYYKKHGIRWVIGDENYEGSSREHAA
LEPRHLGGRAIITKSFARIHETNLKKQGLLPLTFADPADYNKIHPVDKLTIQGLKDFTPGKPLKCIKHPNGTQE
TILLNHTFNETQIEWFRAGSALNRMKELQQ

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FIGURE 6081

GCGGGCCGTTATCCATTTGTGTTGTTTCGCCAGCTAGGCCTGGCCTCGTCCCGCTTCGCTCGGTTCGGTCTCGCGCG
CCCCATAGCCTTGCTAGAGGGTTAGCGTTAGCCTTAAGTGTGCGAATCCGAGGAGCAGCGACAGACTCGAGACC
ACGCTCCTTCCTCGGGAAGGAGGCGGCACCTCGCGTTTGAGGCCCCGCTGCGTTTGAGGCCCCGCTGCGCTTGCG
GCCCCGCTGCGCTTGAGGCCTGCTGCGTTTGAGATCTCATTGGGCGTGATTGAGGAATTTGGGGAGGTTTTTG
GCGGTATTGAGGACGAGGGGGTCCGTTAGTCAGCATAGAATCCTGGAGCGGGAATCCCTCACCCTCTAAATGGCG
TCGGGGGCGGGACCTCCGGGATCTGGCTTCCGCGGGCCGCCGCCGCCCTGAAACGTGAGGGATAGCTGAGATGA
GGCAGCTACTGGGATGGCCCCCATGCGCATTACATGCAGTCCGACTGCCGAGCTTTGAGGCAGCAGGATTTAC
CGTCCACATTCCTCACTACTAACCAGCTTTTAGAACAGATCTCACAAGAACCTAGAGGTTCGGTATTTTTTCGAT
TTAAATTTGCCTGTTACTGACGTTAACGTCTTTCGCCCTAGTGAGCAGTAGCCAACATGTCAGGGTGGGAGTCATA
TTACAAAACCGAGGGCGATGAAGAAGCAGAGGAAGAACAAGAAGAGAACCTTGAAGCAAGTGGAGACTATAAATA
TTCAGGAAGAGATAGTTTGATTTTTTTGGTTGATGCCCTCCAAGGCTATGTTTGAATCTCAGAGTGAAGATGAGTT
GACACCTTTTGACATGAGCATCCAGTGTATCCAAAGTGTGTACATCAGTAAGATCATAAGCAGTGATCGAGATCT
CTTGGCTGTGGTGTCTATGGTACCGAGAAAGACAAAATTCAAGTGAATTTTAAAAATATTTACGCTTTACAGGA
GCTGGATAATCCAGGTGCAAAACGAATTCTAGAGCTTGACCAGTTTAAGGGGCGCAGGGGACAAAACGTTTCCA
AGACATGATGGGCCACGGATCTGACTACTCACTCAGTGAAGTGCTGTGGGTCTGTGCCAACCTCTTTAGTGATGT
CCAATTCAAGATGAGTCATAAGAGGATCATGCTGTTACCAATGAAGACAACCCCATGGCAATGACAGTGCCAA
AGCCAGCCGGGCCAGGACCAAAGCCGGTGATCTCCGAGATACAGGCATCTCCTTGACTTGATGCACCTGAAGAA
ACCTGGGGGCTTTGACATATCCTTGTCTACAGAGATATCATCAGCATAGCAGGATGAGGACCTCAGGGTTCA
CTTTGAGGAATCCAGCAAGCTAGAAGACCTGTTGCGGAAGGTTTCGCGCCAAGGAGACCAGGAAGCGAGCACTCAG
CAGGTTAAAGCTGAAGCTCAACAAAGATATAGTGATCTCTGTGGGCATTTATAATCTGGTCCAGAAGGCTCTCAA
GCCTCCTCCAATAAAGCTCTATCGGGAAACAAATGAACAGTGAAAACCAAGACCCGACCTTTAATACAAGTAC
AGGCGGTTTGCTTCTGCCTAGCGATACCAAGAGGTCTCAGATCTATGGGAGTCGTCAGATTATACTGGAGAAAGA
GGAAACAGAAGAGCTAAAACGGTTTGATGATCCAGGTTTGATGCTCATGGGTTTCAAGCCGTTGGTACTGCTGAA
GAAACACCATACCTGAGGCCCTCCCTGTTGCTGTACCCAGAGGAGTCGCTGGTGATTGGGAGCTCAACCCTGTT
CAGTGCTCTGCTCATCAAGTGCTGAGAGAAGGAGGTTGCAGCATTGTGCAGATACACACCCCGCAGGAACATCCC
TCCTTATTTTGTGGCTTTGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAATTCAGGTGACTCCTCCAGGCTT
CCAGCTGGTCTTTTACCCTTTGCTGATGATAAAAGGAAGATGCCCTTTACTGAAAAATCATGGCAACTCCAGA
GCAGGTGGGCAAGATGAAGGCTATCGTTGAGAAGCTTCGCTTACATACAGAAGTGACAGCTTTGAGAACCCCGT
GCTGCAGCAGCACTTCAGGAACCTGGAGGCCTTGGCCTTGGATTGATGGAGCCGGAACAAGCAGTGGACCTGAC
ATTGCCCAAGGTTGAAGCAATGAATAAAAGACTGGGCTCCTTGGTGGATGAGTTTAAGGAGCTTGTTTACCCACC
AGATTACAATCCTGAAGGGAAAGTTACCAAGAGAAAACACGATAATGAAGGTTCTGGAAGCAAAAGGCCCAAGGT
GGAGTATTGAGAAGAGGAGCTGAAGACCCACATCAGCAAGGGTACGCTGGGCAAGTTCACTGTGCCCATGCTGAA
AGAGGCCCTGCCGGGCTTACGGGCTGAAGAGTGGTCTGAAGAAGCAGGAGCTGCTGGAAGCCCTCACCAAGCACTT
CCAGGACTGACCAGAGGCCGCGCGTCCAGCTGCCCTTCCGAGTGTGGCCAGGCTGCCTGGCCTTGTCTCAGCC
AGTTAAATGTGTTTCTCCTGAGCTAGGAAGAGTCTACCCGACATAAGTCGAGGGACTTTATGTTTTTGAGGCTT
TCTGTTGCCATGGTGATGGTGTAGCCCTCCACTTTGCTGTTCTTTACTTTACTGCCTGAATAAAGAGCCCTAAG
TTTGTACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6082

MSGWESYYKTEGDDEEAEQEEENLEASGDYKYSGRDSLIFLVDASKAMFESQSEDELTPFDMSIQCIQSVYISKI
ISSDRDLLAVVFGTEKDKNSVNFKNIIYVLQELDNPGAKRILELDQFKGQQGQKRFQDMMGHGSDYSLSEVLWVC
ANLFSVQFKMSHKRIMLFTNEDNPHGNDSAKASRARTKAGDLRDTGIFLDMHLKKPGGFDISLFYRDIISIAE
DEDLRVHFEESKLEDLLRKVRACKETRKALSRLLKLNKDIVISVGIYNLVQKALKPPPILYRETNEPVKTKT
RTFNTSTGGLLLPSDTKRSQIYGSROIILEKEETEELKRFDDPGLMLMGFKPLVLLKKHHYLRPSLFVYPEESLV
IGSSTLFSALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEELDDQKIQVTPPGFQLVFLPFADDKRKMFPTE
KIMATPEQVGKMKAIVEKLRFTYRSDSFENPVLQOHFRNLEALALDLMEPEQAVDLTLPKVEAMNKRGLGSLVDEF
KELVYPPDYNPEGKVTKRKHDNEGSGSKRPKVEYSEEELKTHISKGTLGKFTVPMLEACRAYGLKSGLKKQELL
EALTKHFQD

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FIGURE 6083

ATCCGTGTCCTTGCGGTGCTGGGCAGCAGACCGTCCAAACCGACACGCGTGGTATCCTCGCGGTGTCCGGCAAGA
GACTACCAAGACAGACGCTATGACTGAGGCTGATGTGAATCCAAAGGCCTATCCCCTTGCCGATGCCCACCTCAC
CAAGAAGCTACTGGACCTCGTTCAGCAGTCATGTAACATAAGCAGCTTCGGAAAGGAGCCAATGAGGCCACCAA
AACCCTCAACAGGGGCATCTCTGAGTTTCATCGTGATGGCTGCAGACGCCGAGCCACTGGAGATCATTCTGCACCT
GCCGCTGCTGTGTGAAGACAAGAAATGTGCCCTACGTGTTTGTGCGCTCCAAGCAGGCCCTGGGGAGAGCCTGTGG
GGTCTCCAGGCCTGTCATCGCCTGTTCTGTCACCATCAAAGAAGGCTCGCAGCTGAAACAGCAGATCCAATCCAT
TCAGCAGTCCATTGAAAGGCTCTTAGTCTAAACCTGTGGCCTCTGCCACGTGCTCCCTGCCAGCTTCCCCCTGA
GGTTGTGTATCATATTATCTGTGTTAGCATGTAGTATTTTCAGCTACTCTCTATTGTTATAAAATGTAGTACTAA
ATCTGGTTTCTGGATTTTTGTGTTGTTTTGTTCTGTTTTACAGGGTTGCTATCCCCCTTCTTTTCTCCCTCCC
TCTGCCATCCTTCATCCTTTTATCCTCCCTTTTTGGAACAAGTGTTTCAGAGCAGACAGAAGCAGGGTGGTGGCAC
CGTTGAAAGGCAGAAAGAGCCAGGAGAAAGCTGATGGAGCCAGGACAGAGATCTGGTTCCAGCTTTTCAGCCACTA
GCTTCCTGTTGTGTGCGGGGTGTGGTGGAAATTAAACAGCATTTCATTGTGTGTCCCTGTGCCTGGCACACAGAATC
ATTCATACGTGTTCAAGTGATCAAGGGGTTTCATTTGCTCTTGGGGGATTAGGTATCATTTGGGGAGGAAGCATG
TGTTCTGTGAGTTGTTTCGGCTATGTCCAAGTGTCGTTTACTAATGTACCCCTGCTGTTTGCTTTTGGTAATGTG
ATGTTGATGTTCTCCCCCTACCCACAACCATGCCCTTGAGGGTAGCAGGGCAGCAGCATACCAAAGAGATGTGCT
GCAGGACTCCGGAGGCAGCCTGGGTGGGTGAGCCATGGGGCAGTTGACCTGGGTCTTGAAAGAGTCGGGAGTGAC
AAGCTCAGAGAGCATGAAC TGATGCTGGCATGAAGGATTCCAGGAAGATCATGGAGACCTGGCTGGTAGCTGTAA
CAGAGATGGTGGAGTCCAAGGAAACAGCCTGTCTCTGGTGAATGGGACTTTCTTTGGTGGACACTTGGCACCAGC
TCTGAGAGCCCTTCCCCTGTGTCCTGCCACCATGTGGGTCAGATGTACTCTCTGTCACATGAGGAGAGTGCTAGT
TCATGTGTTCTCCATTCTTGTGAGCATCCTAATAAATCTGTTCCATTTTG

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FIGURE 6084

MTEADVNP KAYPLADAHLTKKLLDLVQQSCNYKQLRK GANEATKTLNRGISEFIVMAADAEPL EIIHLPLLLCED
KNVPYVFVRSKQALGRACGVS RPVIACSVTIKEGSQLKQQIQSIQQS IERLLV

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FIGURE 6085A

CCGTCGGTGAGGCGGTGCCGGGCGGGGGTTGTCGGGTGTCATGGGCGGTGGCGACGGCACCGCCCCCGCGTCTCC
CTGAGCGGGACGGCAGGGGGGGCTTCTGCGCTGAGCCGGGCGATGGACGACAGCGGGCGAGCTGGGTGGTCTGGAG
ACCATGGAGACCCTCACGGAGCTGGGCGACGAGCTGACCTGGGAGACATCGACGAGATGCTGCAATTTGTCAGT
AATCAAGTGGGAGAGTTCCCTGACTTGTTTTTCAGAACAGCTGTGTAGCTCCTTTCTTGGCAGTGGTGGTAGTGGT
AGCAGCAGCGGCAGCAGTGGCAGCAGCAGCAGCAGCAGCAATGGCAGGGGCAGCAGCAGCGGAGCTGTGGACCTT
TCAGTGCAACGGTCATTACCCAGGTACATTACCTTCTTCTCTCCCTCGGCGGCCTCCCCACAGGCTCCAACT
CTGCAAGTCAAGGTTTCTCCACCTCAGTTCCCACCACACCCAGGGCAACTCCTATTCTTCAGCCCCGCCCCAG
CCCCAGCCTCAACCTCAAACCTCAGCTGCAACAACAGACGGTAATGATCACGCCAACATTACGACCACTCCGCGAG
ACGAGGATCATCCAGCAGCCTTTGATATACCAGAATGCAGCTACTAGCTTTCAAGTCCTTCAGCCTCAAGTCCAA
AGCCTGGTGACATCCTCCCAGGTACAGCCGGTCACCATTACGACGAGGTGCAGACAGTACAGGCCAGCGGGTG
CTGACACAAACGGCCAATGGCAGCTGCAGACCCTTGCCCCGGCTACGGTGCAGACAGTTGCTGCGCCACAGGTG
CAGCAGGTCCCGGTCTGGTCCAGCCTCAGATCATCAAGACAGATTCCCTTGTTTTGACCACACTGAAGACAGAT
GGCAGCCCTGTTATGGCTGCGGTCCAGAACC CGGCCCTCACC GCCCTCACCACCCCTATCCAGACGGCTGCCCTT
CAAGTACCAACCCTGGTGGGCGAGTGGGACCATTCTGACCACAATGCCTGTAATGATGGGGCAAGAGAAAGTG
CCCATTAAAGCAGGTACCTGGGGGAGTCAAGCAGCTTGAGCCCCCAAAGAAGGAGAAAGGCGGACAACCCATAAT
ATCATTGAGAAACGATATCGCTCCTCCATCAATGACAAAATCATCGAATTGAAAGACCTGGTCATGGGGACAGAC
GCCAAGATGCACAAGTCTGGCGTTCTGAGGAAGGCCATTGATTACATCAAATACTTGACGACAGGTCAATCATAAA
CTGCGCCAGGAGAACATGGTGTGAAGCTGGCAAATCAAAAGAACAAGCTTCTAAAGGGCATCGACCTAGGCAGT
CTGGTGGACAATGAGGTGGACCTGAAGATCGAGGACTTTAATCAGAATGTCCTTCTGATGTCCCCCCCCAGCCTCT
GACTCAGGGTCCCAGGCTGGCTTCTCTCCCTACTCCATTGACTCTGAGCCAGGAAGCCCTCTATTGGATGATGCA
AAGGTCAAAGATGAGCCAGACTCTCCTCCTGTGGCGCTGGGCATGGTAGACCGCTCACGGATTCTTCTGTGTGTC
CTACCTTCTGTGCTCTCCTTTAACCCCTGACTTCCCTGCTGCAGTGGGGAGGGGGCCACGACTCTGACCAG
CACCCACACTCAGGCTCTGGCCGAGTGTCTGTGCTGATCGAGTCAGGTCTGGGGGCTGGTTTACTGGATGATG
CCTACTCTTCTCTTATGGCTGGTAAATGGTGTGATTGTCTGAGCGTCTTGTGAAGCTGCTGGTTTCATGGGGAG
CCAGTGATCCGGCCACACTCGCGCTCCTCGGTACCTTCTGGAGGCACCGGAAACAGGCAGATCTGGATCTCGCC
AGAGGAGATTTTGAGCTGCTGCCGCCAACCTACAAACCTGCCTGGCAGTTTGGGGCCGGGCACTGCCACCTCC
CGCCTGGACCTGGCCTGCAGCCTCTCCTGGAAGTGATCCGCTACAGCCTGCAGAAGCTACGCCTGGTGCCTGG
CTGCTCAAGAAAGTCTTCCAGTGCCGGCGGGCCACGCCACTGAGGCAGGCTTTGAAGAGGAAAGCTTCTGCAAGACC
AGCCCCGGGATCGCGCTCTGGCCTATCACC GGCTGCACAGCTGCACATCAGAGGAAGCTTCTGCAAGACC
GCCTGTTCCGATGTACACATGGCGTTGTGTGCCGTGAACCTGGCTGAATGTGCAGAGGAGAAGATCCACCGAGC
ACACTGGTTGAGATCCATCTGACTGCTGCCATGGGGCTCAAGACCCGGTGTGGAGGCAAGCTGGGCTTCTGGCC
AGCTACTTCTCAGCCGAGCCAGAGCCTGTGTGGCCCCGAGCACAGTGCTGTTCCTGACTCCCTGCGCTGGCTC
TGCCACCCCTGGGCCAGAAGTTTTTTCATGGAGCGGAGCTGGTCTGTGAAGTCAGCTGCCAAGGAGAGTCTATAC
TGTGCCCAGAGGAACCCAGCTGACCCCATTCGCGAGGTCCACCAGGCTTCTGCAAGAACCTGCTGGAGCGAGCT
ATAGAGTCCTTGGTGAAACCTCAGGCCAAGAAGAAGGCTGGAGACCAGGAAGAAGAGAGCTGTGAATTCTCCAGT
GCTCTGGAGTACTTGAAATTACTTATTCTTTTTGTGGACTCTGTGGGGTTATGAGCCCCCACTCTCCAGGAGC
TCCGTGCTCAAGTCCGCCCTGGGTCCAGACATCATCTGTCGGTGGTGGACGTCTGCAATCACTGTGGCCATCAGC
TGGCTCCAGGGAGACGATGCAGCTGTGCGCTCTCATTTTACCAAAGTGGAACGCATCCCCAAGGCCCTGGAAGTG
ACAGAGAGCCCCCTGGTGAAGGCCATCTTCCATGCCTGCAGAGCCATGCATGCCTCACTCCCTGGGAAAGCAGAT
GGGCAGCAGAGTTCCTTCTGCCATTGCGAGAGGGCCAGTGGCCACCTATGGAGCAGCCTCAACGTCAGTGGGGGC
ACCTCTGACCCTGCCCTCAACCACGTGGTCCAGCTGCTCACCTGTGACCTGCTACTGTGCTACGGACAGCGCTC
TGGCAAAAACAGGCCAGTGCCAGCCAGGCTGTGGGGGAGACCTACCACGCGTCAGGCGCTGAACTGGCGGGCTTC
CAACGGGACCTGGGCAGCCTGCGCAGGCTGGCACACAGCTTCCGCCACGATACCGCAAGGTGTTCTGTCATGAA
GCCACCGTGCCTGATGGCAGGAGGCAGCCCCACCGCACCCACAGCTGCTGGAACACAGCCTGCGCGGGCGC
ACCACGCAGAGCACCAAGCACGGAGAGGTGGATGCCTGGCCCGGCCAGCGAGAGCGGGCCACCGCATCTGCTG
GCCTGCCGCCACCTGCCCTCTCCTTCTCTCTCTCCCGGGCCAGCGGCAGTGCTGCTGGCCGAAGCTGCCCGC
ACCCTGGAGAAGGTGGGCGACCGGCGCTCCTGCAACGACTGCCAGCAGATGATTGTTAAGCTGGGTGGTGGCACT
GCCATTGCCGCTCTCTGACCACCAGGCTCAGCCACCCCTCCACCTCTCTCTCGATTTCTCTCTCTCCCCCTCAG

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FIGURE 6085B

CATCTTCCCGCTGAGAGTGGTGGGGAAGAGCCTTGTCTTCTTAGCTGTACCTGCCGAGGCTTCTGGGCCACTCA
GGCCAGTGCACCCCTGGGCAGAGCCCCCTTAAAGCTGCTGTCACTAGATGCCCATGGTCCAGGGCCTGGTGGGCGT
GAGAGGATAGGTGGCAGGGCAGAAACTGGGCAGCCCTGACTTGATAGCAGCAGGGGGAGCTCCCAAGCTGCCAAG
CCCCTGCCCTCCAGCCTTCCTGAGTTTCTCTCTCCTGAACCCTACTCTCTCCTTTTTGCTTCCTCAGTTTTTATCA
GGCTTTCTCTGGGGGACAGCAGTCTCTGAGCACCAGGGAGCAGTTGCCCTCAGGCCTGTGCCCAGCATGCCCTCC
CCTTTTTATACGAATGTTTTCTACCACTGTGCTTGGGTTTGCCATGATGCGAGGCTGAGTTGCTGTAGCGTCTTG
ATTCTCTCCCTGGGTCTGCGTTCCCTCCCCCTGGGCCTGACTGAGCCTGCTCATTGTTTTCCCTTTATTACACAG
GACAGCCAGGGGAGGAGGGGGGCCAGCCCTGGGAGGCTGGTGGGAGGCAGGGGGCAGGCCTGCGGATGCATGAA
ATAATGTTGGCATTATTTTTTAATTTTTTAAAAATAAATGGTATCTTA

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FIGURE 6086

MDDSGELGGLETMETLTTELGDDELTLGDIDEMLQFVSNQVGEFPDLFSEQLCSSFPGSGSGSSSGSSSSSSSSN'
GRGSSSGAVDP SVQRSFTQVTLP SFSP SAAS PQAP TLQVKVSPTSVP TTPRATPILQPRPQPQPQPQTQLQQQTV
MITPTFSTTPQTRIIQQPLIYQNAATSFQVLQPQVQSLVTSSQVQPV TIQQQVQTVQAQRVLTQTANGTLQTLAP
ATVQTVAAPQVQVQVVLVQFQIIKTDSLVLTTLKTGSPVMAAVQNPALTALTTP IQTAALQVPTLVGSSGTILT
TMPVMMGQEKVP IKQVPGGVKQLEPPKEGERRTTHNII EKRYRSSINDKIIELKDLVMGTDAMHKSGVLRKAID
YIKYLQQVNHKLRQENMVLKLANQKNKLLKGIDLGSLVDNEVDLKIEDFNQNVLLMSPPASDSGSQAGFSPYSID
SEPGSPLLDDAKVKDEPDSPVALGMVDRSRILLCVLTFCLCSFNPLTSLLOWGGAHDSQHPHSGSGRSVLSFE
SGSGGWFDWMMPTLLLWLNVGVIVLSVFKLLVHGEPVIRPHSRSSVTFWRHRKQADLDLARGDFAAAAANLQTC
LAVLGRALPTSRLDLACSLSWNVIRYSLQKLRLVRWLLKKVFQCRATPATEAGFEDEAKTSARDAALAYHRLHQ
LHITGKLPAGSACSDVHMA LCAVNLAECAEEKIPPSTLVEIHLTAAMGLKTRCGGKLGFLASYFLSRAQSLCGPE
HSAVPDSLRLWLCHPLGQKFFMERSWSVKSAAKESLYCAQRNPADPIAQVHQAFCKNLLERAIESLVKPAKKGAG
DQEEESCEFSSALEYLKLLHSFVDSVGVMSPPLSRSSVLKSALGPDII CRWWTSAITVAISWLQGDAAVRSHFT
KVERIPKALEVTESPLVKAIFHACRAMHASLPGKADGQSSSFCHCERASGHLWSSSLNVSGGTSDPALNHVVQLLT
CDLLLSLRTALWQKQASASQAVGETYHASGAELAGFQRDLGSLRRLAHSFRPAYRKVFLHEATVRLMAGGSPTRT
HQLLEHSLRRRTTQSTKHGEVDAWPGQERATAILLACRHLPLSFLSSPGQRAVLLAEAARTLEKVGDRRSCNDC
QQMIVKLGGGTAAIAS

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FIGURE 6087A

GATTTCGAGTCAGAAAGCGGCGGCAGGTCTGAACGCTTCGGTAGGATAAGTGCGGTGGGAGGGGGCTCTGCGGTTTT
GGGGAGCCCAGGGCGGGAACCCGGACCCGGCTGGAAGTCCGGAGCCTGGCCGCAGCCCCGCCCTCCGCTCTTTC
TTGGTGACCTTAAGCCAGTGGCTGCCTTTTTCTGAGCCCGGGCGGGGCCGAAGGCGGGCCGTAGGCCCTCGGGAC
TCCCAGCACTGCAGAGGGTGTGAGGTCTGACATCCAAGACACGTTGTTTCGTATTTCTGAAGGAAGAACTGAAGC
TCCGGGAAGTGATGGCTGGGGATGGGGCGGGCAACTTGGGGACCGAGTGTACGATCCACGCCTAAGGTTGAGGGC
GGCCGAGCTAGCCAGGCAGCCGTGACCCCACTGCTTTTTCAGACGTTTCTTAGCTTCCAGAGCCCAACACATACAG
CTGATACACGCAGACCAGATCTGGTCAGGTCTCGGAAGCTGAGTCCAGAGCGATGCTGCTGAAGACAGTGCTCT
TGCTGGGACATGTGGCCAGGTGCTGATGCTGGACAATGGGCTCCTGCAGACACCACCATGGGCTGGCTGGCCCT
GGGAACGCTTCCGCTGCAACATTAAGTGTGATGAGGACCCAAAGAACTGCATAAGTGAACAGCTCTTCATGGAGA
TGGCTGACCGGATGGCACAGGATGGATGGCGGGACATGGGCTACACATACCTCAACATTGATGACTGCTGGATCG
GTGGTCGCGATGCCAGTGGCCGCCTGATGCCGGATCCCAAGCGCTTCCCTCATGGCATTCCTTTCTGGCTGACT
ACGTTCACTCCCTGGGCCTGAAGTTGGGTATCTACGCGGACATGGGCAACTTCACCTGCATGGGTTACCCAGGCA
CCACACTGGACAAGGTGGTCCAGGATGCTCAGACCTTCGCCGAGTGGAAAGGTAGACATGCTCAAGCTGGATGGCT
GCTTCTCCACCCCGAGGAGCGGGCCAGGGGTACCCCAAGATGGCTGCTGCCCTGAATGCCACAGGCCGCCCA
TCGCTTCTCCTGCAGCTGGCCAGCCTATGAAGGCGGCCTCCCCCAAGGGTGAACACAGTCTGCTGGCGGACA
TCTGCAACCTCTGGCGTAAGTATGATGACATCCAGGACTCCTGGTGGAGCGTGCTCTCCATCCTGAATTGGTTTCG
TGGAGCACCAGGACATACTGCAGCCAGTGGCCGGCCCTGGGCACTGGAATGACCCTGACATGCTGCTCATTGGGA
ACTTTGGTCTCAGCTTAGAGCAATCCCGGGCCAGATGGCCCTGTGGACGGTGCTGGCAGCCCCCTCTTGATGT
CCACAGACCTGCGTACCATCTCCGCCCAGAACATGGACATTCTGCAGAATCCACTCATGATCAAAATCAACCAGG
ATCCCTTAGGCATCCAGGGACGCAGGATTACAAAGGAAAAATCTCTCATCGAAGTGTACATGCGGCCTCTGTCCA
ACAAGGCTAGCGCCTTAGTCTTCTTCAGCTGCAGGACCGATATGCCCTATCGCTACCACTCCTCCCTTGGCCAGC
TGAACCTTACCGGGTCTGTGATATATGAGGCCAGGACGCTACTCAGGTGACATCATCAGTGGCCTCCGAGATG
AAACCAACTTCACAGTGATCATCAACCCTTCAGGGGTAGTGATGGTACCTGTATCCCATCAAGAACCTGGAGA
TGTCCCAGCAGTGAGGAGCTGGGACATGTGACAGGCTGGTGGCACCCTGAGCCTAGACCATGGAGCCTTGGC
ATGCCCAGGGCAAGTGGGGAGGTTCTCTGCTCCCAAGGCTGCTCGGTGACTGACCCCATCATACCCAAAGTGCA
ATCTCAGCGCCAGGTTCTATGCCCTGTCCAAGCGTAAACCTCTTGGAACTTCTTTTGGGGCAATTTTCTGTG
GCCCTTCTGGCCTCTACTTCCATGTGCGCAGCCCCACAGACGTTGCTGAGCAACTCGCCAGCCTCCTGAGCTCCA
TGCCCATCAGGACTCTAGCCTCTGACCTTGCTGTTGACTCTGAAATCAGGATTTGGAAGTTTTTGAATTAGGAGT
AGAGAGATCTGACCTCTTGCCAGGAATGCCATGGATCATGTGATTGGCTTTTCTACCCATAGAGGGCCTTGCA
CCTGATACCACCTGGGAGTGAGGGTCACAAAGGAGACCTTGGCTCCCTCAGGTACCAATAAACCTGTTCTTTAA
TCAAGTAGTTGTAATATGGACCTGGGGTACCTTTAGTTAGGGACTCTGGTGGCACTACACGGGGTGTGGATTCA
AATCTCACCTCTATGGATGATGTCTGGCATCGTCTGGCCCCCTCCTTTTCCAAAGTGACCAGAAGATTGTACTTCC
TAGAGATGCCAGACTTGCCCTACACCCAGGAGTGCCCTGCTGTGCCCTGGTATGCTGGCAGTGGTGTGCTGAC
AACACAATGAGGCCAAGTAGCAATGCTCCAGGTCTGACGCTGTGCTCTGCCAGCAGTGCCCTGGCCAGC
ACCTCAGCCTGCTCTTCTCTCTGGTGGCTCCACCCCAACCCCTACTTCTTTTCTTTTCTTTCTCTCTCCCAACCTGG
CTGCAAGGAGGTTTCATATTCCCAGATGTGTCCACAAACCTGTCCAGGAGTTGTGCTTTAAATTTGATTTCCTG
TCCCTCTTCTTAAGGACAGGGGTAACAGTCAAAGTGAAAGGAATGATGGGTTCTTGCCTGTCTTGCTTTGGTCCGT
ATTTCCCAAGCCCTCCTCTTTTAGCCAAGGCTACAGGGCACTTGCTTCCCTGGTGGCTCTCCCTTTGGAGAGA
GCTAGTGGCAGAGCAACCTAGCTAGGTCTCCTTGGGCTTTGAATGCAGGAGCACCCAGTGCCCCAGGCCCTTGCA
CTGTGCTGCCCAAGGAGTATTTTCTGGGTGGATCTCCCATACTCCTCAGGGTTCTGAGGTCTTGTATTTAGGGT
ATGGTGTAAAACTTACATATGCACATTTTGTACATCATTTAAGATGATTGAAGCTTTACTGGTTAAGTATAGG
GTCACCAGAGAAAGTTTCTTTCCCAAGTTGATGTCTTGAGGCTGTTGAGAACTTAGGACAGAAGCCTACCTCAT
CCCAGGCCTGCCCTCCGTGCATAGCTCTGCCCTTGGGTCTTGTTTCATAGTGTGTTTACGGCAAAATGGAATAGT
CTCAGGTGGGAACACCTTCTCTTGTAGCTCCAGGAAGGCTTTGTGGGAAATGAGTTGAGACCATGGACTTGGGA
GTTGGGGGCCAGAGTTGAGCCTGGACTTGACCAATTAATTCCCTTACCTTTACGCCAAGATAGCTACATGTCTT
TACTTGTGTATAAGTTTTCTTTTGTCTGGGGGTGCTGATTGATCCTATCTCTTACCCTTCATTCTTTCAA
CAAACATGCCATCTATCTCCAGGACATTTATTCCCTTCTATTCAAGGCCAGTTAGGAATGCAATTATTTTTTT
TTTCAGTTAAATACAGACTTGTGGACGCAAGGTACCCTTTCTCTTTTAAAACTTTTTATCATGAAAACCTT

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FIGURE 6087B

CAAATACAAAAATAAAATGGTAGAGTGAACCTCCATG

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FIGURE 6088

GAGAGTGTCTGCTGGTCTCTGTGCTGGTGGGGTGGGGGTGCCAGGTGTGTCCAGAGGAGCCCAGTTGGTAG
TGAGGCAGCCATGGGGCTAGAAGCACTGGTGCCCTGGCCATGATAGTGGCCATCTTCCTGCTCCTGGTGGACCT
GATGCACCGGCACCAACGCTGGGCTGCACGCTACCCGCCAGGTCCCCTGCCACTGCCCGGGCTGGGCAACCTTGC
TGCATGTGGACTTCCAGAACACACCATACTGCTTCGACCAGTTGCGGCGCCGCTTCGGGGACGTGTTACAGCCTGC
AGCTGGCCTGGACGCCGGTGGTCTGCTCAATGGGCTGGCGGCCGTGCGCGAGGCGATGGTGACCCGCGGCGAGG
ACACGGCCGACCGCCCGCTGCGCCCATCTACCAGGTCTGGGCTTCGGGCGCGCTTCCCAAGGGGTGATCCTGT
CGCGCTATGGGCGCGCTGGCGCGAGCAGAGGCGCTTCTCCGTGTCCACCTTGCGCAACTTGGGCCTGGGCAAGA
AGTCGCTGGAGCAGTGGGTGACCGAGGAGGCGCCTGCCTTTGTGCGCGCTTCGCGGACCAAGCCGGACGCCCT
TTCGCCCCAACGGCCTCTTGGACAAAGCCGTGAGCAACGTGATCGCCTCCCTCACCTGCGGGCGCGCTTCGAGT
ACGACGACCCTCGCTTCCTCAGGCTGCTGGACCTAGCTCAGGAGGGACTGAAGGAGGAGTGGGCTTCCTGCGCG
AGGTGCTGAATGCTGTCCCGTCTCCCGCACATCCAGCGCTGGCTGGCAAGGTCTACGCTTCCAAAAGGCTT
TCCTGACCCAGCTGGATGAGCTGCTAACTGAGCACAGGATGACCTGGGACCCAGCCAGCCACCCGAGACCTGA
CTGAGGCCTTCCTGGCAAAGAAGGAGAAGGCCAAGGGGAGCCCTGAGAGCAGCTTCAATGATGAGAACCTGCGCA
TAGTGGTGGGTAACCTGTTCTTGGCGGATGGTGACCACCTCGACCACGCTGGCCTGGGGCCTCCTGCTCATGA
TCCTACACCTGGATGTGCAGCTCCGTGTCCAACAGGAGATCGACGACGTGATAGGGCAGGTGCGGCGACAGAGA
TGGGTGACCAGGCTCACATGCCCTGCACCACTGCCGTGATTACGAGGTGCAGCGCTTTGGGGACATCATCCCC
TGAGTGTGACCCATATGACATCCCGTGACATCGAAGTACAGGGCTTCCGCATCCCTAAGGGAACGACACTCATCA
CCAACCTGTCTATCGGTGCTGAAGGATGAGGCGCTTGGAGAAGCCCTTCCGCTTCCACCCCGAACACTTCTTGG
ATGCCCAGGGCCACTTTGTGAAGCCGGAGGCCTTCTGCTTCTCAGCAGGCCGCGGTGCATGCCTCGGGGAGC
CCCTGGCCCGCATGGAGCTCTTCTTCTTACCTCCCTGCTGCAGCACTTCAGCTTCTCCGTGGCCGCGGAC
AGCCCCGGCCAGCCACTCTCGTGTCTGTCAGCTTCTGGTGACCCCATCCCECTACGAGCTTTGTGCTGTGCCCC
GCTAGAAATGGGGTACCTAGTCCCCAGCCTGCTCCCTAGCCAGAGGCTCTAATGTACAATAAAGCAATGTGGTAGT
TCCAACTTGGGTCCCCTGCTCAGCCCTCGTTGGGATCATCTCTCAGGGCAACCCACCCCTGCCTCATTCTT
GCTTACCCACCGCCTGGCCGCATTTGAGACGGGTACGTTGAGGCTGAGCAGATGTCAGTTACCCTTGCCATAA
TCCCATGTCCCCACTGACCAACTCTGACTGCCAGATTGGTGACAAGGACTACATTGTCTGGCATGTGGGGA
AGGGGCCAGAATGGGCTGACTAGAGGTGTCAGTCAGCCCTGGATGTGGTGGAGAGGGCAGGACTCAGCCTGGAGG
CCCATATTTAGGCCTAACTCAGCCACCCACATCAGGGACAGCAGTCTGCCAGCACCATCACAAAGTCACC
TCCCTTCATATATGACACCCCAAAATGGAAGACAAATCATGTCAGGGAGCTATATGCCAGGGCTACCTCCAGGG
CTCAGTCGGCAGGTGCCAGAACATTCCCTGGGAAGGCCCCAGGAAAACCCAGGACCAGCCACCGCCCTCAGCCT
GTCACCTTGTGTCAAATTTGGTGGGTTCTTGGTCTCACTGACTTCAAGAATGAAGCCGTGGACCTCACGGTGA
GTGTTACAGTTCTT

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FIGURE 6089

ACACCATCCTCTTAGTTGCTCAGACTGAAAACCTAGCAGCCATCCTGGATTTCTCTCACACTGCCTATTCAACGT
GTGAATGCATGAGTGGAAAGCTGAGTTCGCACTCGTGAAGTGGCCGGGGTCAACTCTGACATTGCTCCCACTTTC
GCGCGCTGATTTATCTCTGAGCGGATGAAGGTTGGGCCATGGCGGGCGGGGCCGGGGAGGCGGGCTTGGAGTGAG
GGGGCGGGGCAGGCGCCACGAAAACGCGCTCGCGCCGGCGCCGAACCGCAACTCCCGGCGGGCCCCGCGCTCCCG
GGTGGCAAGATGGTGGCGCGCAGGAGGAAGTGCGCCGCGCGGGACCCGGAGGACCGTATCCCCAGCCCACTGGGC
TACGCAGCTATTCCAATCAAGTTCTCTGAAAAGCAACAGGCTTCTCACTACCTCTATGTGAGAGCACACGGCGTT
CGACAAGGCACCAAGTCCACCTGGCCTCAGAAGAGGACTCTTTTTGTCTCAATGTGCCCCATACTGCACAGAG
GAGAGCCTGTCCCGCCTCCTGTCCACCTGTGGCCTCGTCCAGTCTGTAGAGTTGCAGGAGAAGCCGGACCTGGCT
GAGAGCCCAAAGGAGTCAAGGTGCAAGTTTTCATCCCAAGCCAGTTCCGGGTTTCCAGGTAGCCTATGTGGTG
TTCCAGAAGCCAAGTGGGGTGTGAGCGCCTTGGCCCTGAAGGGCCCCCTGCTGGTGTCCACAGAGAGCCACCT
GTGAAGAGTGGCATTCAAGTGGATCAGTGAAGTACGCAAGTCTGTGCCCCGACCTGAGGCCCTGAGGGTGGAA
GTGGACACGTTCAAGGAGCATATGACCAGAAGATCGCTGAGGAAGAAGCTAAGGCCAAGGAGGAGGAGGGGGTGC
CCTGACGAGGAGGGCTGGGTGAAGGTGACCCGCCGGGGCGGGCGGCTGTGCTCCCCGGACTGAGGCAGCCAGC
TTGCGGGTGTGAGAGGGAGAGACGGAAGCGCAGCCGAAAAGAGCTGCTCAACTTCTACGCCTGGCAGCATCGA
GAGAGCAAGATGGAGCATCTAGCGCAGCTGCGCAAGAAGTTCGAGGAGGACAAGCAGAGGATCGAGCTGCTGCGG
GCCCAGCGCAAATTCCGACCGTACTGAGCTGTGAGAGCCGAGTGAATGGCTGGAGGTGCAGGGCCAGGAGGAGG
CGAGGCAGGGCCTGCAGCGGTCTCTGAGAGGCCGAGCTCTGGCCAACGGGCCCCAGGTTGAAGGCCACCGCGTCC
AACAGCCCCATCAGAGTCCACACAGGCCAGGAGGGAAGGACCAGGCCACCCCTCGGGTCTTGTGCTTCAGCAGTC
CTGGGGACCCAGGCGTGCAGAGGAGGAGTGTCTTCCCTCAATGCAAAAGCCCTTGCTGGCAACGAAAAAGCCTCAAAAGCA
GTGAGAATACAAGAACCTTTTATTTTCCATCCAGTTGGGCAGCAGGGAAGGCTAGGTGGGCCAGCCCGCCCTT
CCTTCCCTCCAGCTGGCTGGAGATTATTAGCCAGGAGACAGCAGCCCTGGAACCCAGACTCTGTCTCCCCCTTGA
GTCACAGATGTTGAAGTTGGAATCTCGCTCCTTCCCCTGACTACCATCCTAGGCTGGGCCTCAAGACTAGTGAGG
CCTGTCCCCACCATCCCTGGCCTTGTGTTGGGGCTCAGGAACCTCAGAGTCCAGTGTGAGTCTGGGAGCACTAG
GTCTTCATAGTTCCAGGCCAGAGCTACAGCTGGGCTGGGAGCGTGTGTGTGCACTGTAAGAAGGAGCTGATGAT
ACTGGCCACGTGCTGGGGTTTCGCTCATGTGGACACAGTGATTGCCCTGGGACTTCCACAACTGGAACCGCTCTTT
GAGGGTGGATTTTATTGTGTCTATCATGAACGACAGGGACTCCTTGTGAGAGTAATTCTCTTGGATCAAAATA
TCCGTGGACTGCTTTGATCAACAGGACATGGGCCTGCAGCTTCTGATGGAATGCGCACACAGCTCCCTGCTGAC
GAAGTCAATGCTGTTCTCTGCC

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FIGURE 6090A

CGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGTGAGTTCCAAAGG
CGGGGTGCTGGGGAGAGGCAGCTCCGTCCATCTCTTTTGTCTAATGGGTAAACTGCCTGCATCACAGCTCCCC
TTCATCCCCCATTCCGTTTCCCTCTGTTCTAATGGCAGCTGGCCGTTTCATATGCTTAAACTTGACCAAAATGGT
TTGCTTTGTTATTTCCCCAGGGCTTGACCCTATAGGGACTAGCATTATGATCTCGTTCTCAGCTTTCTGATTTAG
AAATATCTGAGTGGAAGTTGGAGGGGGAGGCTGCTTGGGTCTCCTAGCTGTGTGCATCATCCCGGGAACAGAGAA
CTCCACTGCATGATTGGCTCTGATGGAGACAGTGCCAGATGCTACCCCTTATTTTGTTCGCCAGTGAGGTTTTTT
GTTTGTGTTGTTGTTGTTGTTGTTTTGCTTTTTCAGTTATTTTGAGAGTCTCACTGTGTGCCCAGGTTGGTTT
CAAACCTCCTGGGGTCAAGCAACCCCTCTCCCTCAGCCTCCTGAGGACCTGGGACTATAGGCGCACACCATCACGC
CCAGCTGGATTGTTGCTTTTAAGTACAGTGGGAAGCCATTGAAGGCTTTTGTGTCACACAGCTGAGTATACATGCC
TGGCCCAGGACTGAGGGATGTTTTGAAGCCTGAGATGCATAAAATGTTGAGACTGTGAGGACTTCACCTTCTAGA
TAAGGAAGCAGATACCAGGGAGGAGGTTAGACTTGCCAGGGTGAGTGGGATAGTGTGGGGCAGGGCTGAAATAGA
CTTTGAGATTTAAAAAGACTAGGATTTGAACCTGGGTAAATGAATTATGTGATTGGATAAGTTCTTAAACTGTG
TTCAAGGAATAAGAAATATTTCTTAGGGTTTTGTAACCTAATAAGTTTGGGAAGTACTGGGCTAAACAGAGTTAC
ATCTGTTTCACTTTCCGGCTTCTCAGATTGTGTAATATGCTAATGGATGTTACCATCCAGAAGGAACATGCAGTG
TTTCTAAACTTAAACCACAAATTAGCCAGGTGTGGTGGCATGCACCTATAGTCCCAGTTACTTGGGGGGCCGAG
GTGGGAGGATCGCTTGAGCCTGGAAGATCGAGACTAGTGAGCCATCATATGCCACTGCACCTCAGCCTGGGTGA
CAGAGTGAGATTCTGTCTCAAAAAAACCCACAAAACCTAGAACATACAGCACTGCCTGCGTCTCCATTTTCTC
ATCAGTAAATAAGAAAAACACAGCCTGGGCCACATAGCAAGACCTGGTCTCTACAAAAAATTTTAAAAATGAGCC
AGGCATGGTGGTACACGCTGTAGTCTTAGCTCCTTAGGAGGCTGTGGCAGGAGAACTGCTTGAGCCTAGGAGAT
GGAGGCTGATGTGAGCTGTGATTGAGTTTGCTGCGAGGTGGAATGAGATGAAGGGGTATGGAAGTGTTACACCC
AGTGCCTAGCTCATGACAGATGCCAGTAAATGGTGGTCCCTCCCATCTAAGGAAAACTGACAAGAATTTT
TGACTCTTCTCTGCTCTCCACAGGCGGCTGAGTGACAGCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGG
GTGAACCTCTGCCTCCTCTCAACCCCCCTGCCGAAGTGGACCTGACACCATCCTGAAGGCACTCTTCAAGTCC
TCAGGGGCCCTGTGTGACCAGCAGCCACAGAACTCAAATCAAGCTTTGAGCAGGGGAGTGAGGCCAGCAAG
TGGGGGCAGAGGAGGGTGGCTCTGTTTTCCCAAGGCATAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCT
GATTGTGGGAAGGGTTGCCAGGGATAAAGAGCTTCTCACTGGATGGGACCCGCTTTCTGTGTTGTGTTCTGCC
CTGTGCTCTTCTCTCTACGTTAACGTTTCTGTAGTATGTTTCTTCATCTCATCGCCAAGGTAGGCTTGTGTTTT
TCAGTGTGTGCCTCCCCGAGCCTCAGCCCCAAGCTGATTCTTATCTGGAATGGTACACTGAATTCTCTGGGTG
GCTTTCTTGTGGCCCCATGGGATGCAGCGTGGGGGCTGTCTGAAGGACCTGCTTTTTTCCAGGGGCCGAGGGCT
GCCTTTCCCTTTGTGTGATTAAGCTTTTCAAACAATGGAGGGGATGGAGAGCCCTGGTGTCTGACGGGAGCCAG
GTCGGCCTGAGAGCTGTGCCGCTCCTCTGTCTTGTGAGTGGAGGTGCCCTGGGTGGGGAGCAGGTCTCAGGCCTCT
TGTCCTCTCCCCAGTGGCTCCAGGCCTCACTAGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTAT
CTAAGCTCTTGGCTTGGAGTCCCGTGTGCTCTCCACCCAGAGGAAGTTCTCCAGAGTTACCTTTCCCTTTTCT
TGAGTTGTGCTGAATGCCCCACCCAGCTCTCTTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTGA
GCCCTCCCGGTTCTCACCTCGCCTGGCACTTAACCACACCCTGGTTTTGTGTAGCCGCCAGCTCTCTTCTGGTTG
GGCCTTTGAAAGGCTCAGCCTCCATTGTGCAGTGTCTGGGTTTGGAGCTTATTTGAATGGAAGAGGTGAGTTT
TTCTGGCTCTCCATTTCTGGCCTCAGTTGTCTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCT
GCCACCAAGGGGCACTGTTTGTTCCTACTTATGTGAGTGACCCATCCATCCATGACCAGAGGATTATTTTCTG
CCTTGGCAGAGGAGGAGGAGTCAAGGGAGCAGGGCAGCTCTACCAGGCAAGGTGTTTCCCCAGCATAGGCGCAGA
CAGTTGGGACGAAACTTCAGAGCCCAGGCAGTCCCTGAATGACCAGGCCAGTGTGTCACTGAGTGGTCCCCTGC
TGGTTGGGAGTGAAGAGAATCCAGGCTGGCAGAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAAA
ATCAGTAGCAAGTGCTGGAAAAGGCACATGCCGAAGATACTCAAGAGCTCCCAAGATTTGCTTGAGGCTAGCCCA
GTGAAAAAACCAGAGACTCATGTTTCCAGGGGTGAGTGTGTCAGGCAGGAAGGACCCAGGATTTGAACCCAGCT
TCAGTGTGCAGGCTCTGAGGCTGCCAGGACGGGAAAGTCCAAGGAAGGGGCTGGTGGTGTCTCCACTTGCAGTT
CTTTAAAGAATGCTGCTTTTTTATTCTCCTAACCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACA
TTCTCCACACTTTTCCCTTCTGGCCCAAGAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTTCAGGTAAGTGG
GAGCCGGGGGCTCACTGCTTGCACTGTGCTTAGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCC
CTCTCATCCCAAAGCAGGTATCTTCTGGTTGTACAGAGTTTCAATTGAGTCCAGCTGCAGCCACGTGGCCATCTG

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FIGURE 6090B

GAGCTGGTGCTATAGGTGACCATCTGGTACATTGAGGGGACCTGTTTGCCTCCTCCACTCTATAAGCAGTCATCT
TGGGAGACCGGGAGGAGAAGGTGGTGGGCTAGTCCTGTGTCTCCTCCACTTCCCATGCCTCTATGTTACCCATC
TGTGTCTCCTGTGCAGAAGGAGAGGAAGGGGCATTAAGAGATGAAGGGTGATTATGTATTACTTATCCATTTCTG
AATAAACATTTGTTATTCCCTACCTTTGAGTTATCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAAAGTCTCAC
TCTGTTGCCAAGGCTGGAGTGCAGTGGCACTATCTCAGCTCACTGCAACCTCCGCAGCCAGACTCAAGTAATCCT
CCCACCTCAGCCTCCCAATTAGCTGGGACTGCAGGCGTGCATCACCATGTCTGGCTAATTTTTGTAGAGATGAGG
TTTACCATGTTGCACAAGCTGGTCTTGAAATCCTGACCTCAGGTGGTCTGCCTGCCTCGGCCTCCCAAAGTTGG
AATTAACAGGCGTGAGCCACCACGCCAGCCAAGGGTTTTAATCTTGAGGGATTTCAACATTTGGGGTGGAAC
TAATTATTTAAAAATAGAGACAGATTCTTGCTATGATACCCAGGATGGTCTTGAACCTCGGGCACAAGTGATC
CTCCTGCTTCAGCCTCTCAAAGTGTGGAGTTACAGGCATGAGCCACTGCTCCCCACCAGGGATGCAATTACTT
GATACTCCTCTCCAGAAGGTGGGGTCTGTGCCCTCCTGAACCCAAGTGTGCTCTGTTACTACTTTGACCAGAT
GTGACTCTGCCATTTCTGTGCCTAGGCTTTTAAAGATGGTCACTTCTCCATTTCTGTGCTGGAACATTTCTCTG
GGAGCCTTGACACCACATTTGAAGTTGCCTATTGGGGCCAGCATGGTGGCTCACGCCTGTAATCCCAGCACTTCA
GAAGGCCGAGGCAGGCAGATCGCATGAAATCAGGAGTTTGAGACCAGCCTAACCAACGTGGTAAAACCTGTCTC
TACTAAAAATTACAAAAATTAGAGGGGCGCGGTGGTGGGCGCTTGTAATCCCAGCTATTAGGAGGCTGAGGCAG
GAGAATCACTTGAAACCGGGAGGCGGAGTTTGCACTGAGGTGAAATCACGCCACTGCACTCCAGCCTGTGCAACA
GAGCGAGGCTCTGTCTCAAAAGAAAAAAATAGTTGACTGTGCGTTTGGCATGGTGGCTCATGCCTCTTGTTCCCA
GCATTTGGGATGCTGAGGCAGGAAGATTACTGGAGCTCAGGAGTTTCGAGACCAGCTTGGGCAATATAGTGAAGC
CCTATCTTTACAAAAACGAAAAATTAGCTCAGCTACTCAGGAGCCTGAAATGGAGGATCATTGTGCCCAGGAG
GCAGAGGTGCGAGTGAGCTGTGATCATGCCACTATACTCCATCCTGGGCAACACAGTGAGACGGCAGAAAAAAA
AAATAGTTGACTATTGAGTCTCATATCTGATTGCCACCTGACATCTCCCCTGAGTGGCCTAATGGGCATCTCAC
CACGGCCACAGAGAACTGATCTACTCGATTTTCCCTAAGCTGGCCCCCTCTCCTGCAGTCTACCCATGTCAGTCA
ATGGCAACACCATCCTCTTAGTTGCTCAGACTGAAAAGCTAGCAGCCATCCTGGATTTCTCTCAGCTGCCTATT
CAACGTGTGAATGCATGAGTGGAAAGCTGAGTTGCACTCGTGAAGTGGCCGGGGTCACTCTGACATTCCTCCC
ACTTTGGCGCGCTGATTTGCCTCTGAGCGGATGAAGGTTGAGCCATGGCGGGCGGGGCGGGGAGGCGGGCTTGG
AGCGAGGGGGCGGGGCAGGCGCCACAAAAACGCGCTCGCGCCGGCGCGGAACCGCAACTCCCGGCGACCCCGCG
CTCCCGGTGGCAAGATGGTGGCGCGCAGGACGAAGCTCGCGGCGCGGGACCCGGAGGACGGTATCCCGAGCCCA
CCGTGCTACGCAGGTGAGGGGATCCGGAACGCGAGACCGGGGGCGGCCAGCATCGCCGGGAGGTGTTTGGGGGCT
GGCGGCGCGGGGGTCCCCAGGAGCGGCGCG

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FIGURE 6091

CGAGAGTTGGTCCGCGGACGCCGGAAGTAGTTTCGTCGCTCCCTAGCGGCCGAAGGGGCGGGCTCGCGGGGTCTCG
ACTGCTTTTCGGCTTGCTCGGCGGAGCAAGATGGCGGACATCTCCCTGGACGAACTCATCAGGAAGCGCGGGGCGG
CGGCGAAAGGACGGCTTAATGCCAGACCGGGAGTTGGAGGTGTCCGATCTCGAGTTGGGATCCAGCAAGGCCTTC
TCAGCCAGTCAACACGCACAGCCACCTTCCAGCAGAGATTTGATGCCCGGCAGAAGATTGGCCTCTCAGATGCC
GGCTCAAACCTGGGAGTCAAGGATGCCCGGGGAGAAGCTTTTGAGAAAGATGCCCGATTTTGAATCAAAGGGAAAG
TGCAGGATGCCAGAGAGATGTTGAACTCTCGCAAGCAGCAGACCACGGTGCCCCAGAAGCCCCGCCAGGTTGCTG
ATGCCCGGGGAGAAGATCAGCTTGAAGAGGAGTTCCCTGCTGCCTTCATAAACCACCCATTGGGACAGTGACCC
CTGCTCTGAAGCTCACCAAAAACCATCCAGGTTCCACAGCAGAAAGCCATGGCACCACTTCATCCCCATCCTGCCG
GAATGAGAATCAATGTTGTCAATAACCACCAGGCCAAACAGAAATTTATATGACCTGGATGAAGATGATGATGGTA
TAGCTTCCGTTTCTACTAAACAGATGAAGTTTGAGCCTCAGGCGGCTTTCTCCACCACATGGCTGGGCTAAGCA
GTTCCAAGCTTTCCATGTCCAAGGCCCTCCCTCTCACCAAAGTGGTTGAGAATGATGCATACACAGCTCCTGCTC
TCCCTTCTCTATTGCAACAAAAGCCTTGACCAACATGTCCCGGACACTGGTGAACAAGGAAGAACCCCCCAAAG
AGCTGCCAGCTGCTGAGCCTGTTCTCAGCCCATTGGAAGGCACCAAGATGACTGTGAATAATCTGCACCCTCGAG
TCACTGAGGAGGACATTGTTGAGCTTTTCTGTGTGTGTGGGGCCCTCAAGCGAGCTCGACTGGTCCATCCTGGGG
TAGCGGAGGTGGTGTGTTGTGAAAAAGGACGATGCCATCACCGCATATAAGAAGTACAACAACCGGTGTCTGGACG
GGCAGCCGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGCGGCTGA
GTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGGGTGAACTCTGCCTCCTCCTCAACCCCCCTG
CCGAAGTGAGCCCTGACACCATCCTGAAGGCACTCTTCAAGTCTCAGGGGCCCTCTGTGACCACGCAGCCCACAG
AATTCAAATCAAGCTTTGAGCAGGGGAGTGAGGCAGCCAGAAGTGGGGGCAGAGGAGGGTGGCTCTGTTTCCCC
AAGGCAAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCTGATTGTGGGAAGGGTGGCAGGGATAAAGAG
CTTCTCACTGGATGGGACCCGCCTTTCTGTGTGTGTGTTCTGCCCTGTGCTCTTCTCTCTACGTTAACGTTTCTCT
GTAGTATGTTTCTTCATCTCATCGCCAAGGTAGGCTTGTGTTTTTTCAGTGTGTGCCTCCCCGAGCCTCAGCCCCA
AGCTGATTTCTTATCTGGAATGGTACACTGAATCTCTGGGTGGCTTTCTTGTGGCCCCATGGGATGCAGCGTG
GGGGCTGTCTGAAGGACCCCTGCTTTTTCCAGGGGCCGAGGGGCTGCCTTTCTTTGTGTGTTAAGCTTTTCAA
ACAATGGAGGGGATGGAGAGCCCTGGTGTCTGACGGGAGCCAGGTGCGGCTGAGAGCTGTGCCGCTCCTCTGTC
TTGTCACTGGAGGTGCCTGGGTGGGGAGCAGGTCTCAGGCCTCTTGTCTCTCCCCAGTGGCTCCAGGCCTCACT
AGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTATCTAAGCTCTTGGCTTGGAGTCCCGTGTGCTC
TCCACCCAGAGGAAGTTCTCCAGAGTTACCTTTCCCTTTTCTTGAAGTTGTGCTGAATGCCCCACCCAGCTCT
CTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTGAGCCCTCCCGGTTCTACCTCGCCTGGCACTT
AACCACACCCTGGTTTTTGTGTAGCCGCCAGCTCTCTTCTGGTTGGGCCTTTGAAAGGCTCAGCCTCCCATTTGTGC
AGTGCTTGGGTTTGGAGCTTATTTGAATGGAAGAGGTGAGTTTGTTCCTGGCTCTCCATTCTGGCCTCAGTTGT
CTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCTGCCACCAAGGGGCACTGTTTGTTCCTACTTA
TGTGAGTGACCCCATCCATCCATGACCAGAGGATTATTTTCTGCCTTGGCAGAGGAGGAGTCAAGGGAGCA
GGGCAGCTCTACCAGGCAAGGTGTTTCCCCAGCATAGGCGCAGACAGTTGGGACGAACTTCAGAGCCAGGCAG
TCCCTGAATGACCAGGCCAGTGTTGTCACTGAGTGGTCCCCTGCTGGTTGGGAGTGAAGAGAATCCAGGCTGGCA
GAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAAAATCAGTAGCAAGTGCTGGAAAAGGCACATGC
CGAAGATACTCAAGAGCTCCCAAGATTTGCTTGAGGCTAGCCCAGTGAAAAAACCAGAGACTCATGTTTCCAGG
GGTCAGTCTGTGAGGCAGGAAGGACCCAGGATTTGAACCCAGCTTCAGTGTGCAGGCTCTGAGGCTGCCAGGAC
GGGAAAGTCCAAGGAAGGGGCTGGTGGTGCTCCACTTGCAAGTTCTTTAAAGAAATGCTGCTTTTTATTCTCCTAA
CCCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACATTCTCCACACTTTTCCCTTCTGGCCCCAA
GAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTTCAGGTACTGGGAGCCGGGGGCTCACTGCTTGCAGTGTGCTT
AGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCCCTCTCATCCCAAAGCAGGTATCTTCTGGTTG
TCACAGAGTTTCAATTGAGTCCAGCTGCAGCCACGTGGCCATCTGGAGCTGGTGCTATAGGTGACCATCTGGTACA
TTGAGGGGACCTGTTTGCCTCCTCCACTCTATAAGCAGTCATCTTGGGAGACCGGGAGGAGAAGGTGGTGGGCTA
GTCCTGTGCTCCTCCTCCACTTCCCATGCCTCTATGTTACCCATCTGTGCTCCTGTGCAGAAGGAGAGGAAGGGG
CATTAAGAGATGAAGGGTGATTATGTATTACTTATCCATTTCTGAATAAACATTTGTTATTCTT

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FIGURE 6092

MADISLDELIRKRGAAAKGRLNARPGVGGVRSRVGIQQGLLSQSTRTATFQQRFDARQKIGLSDARLKLGVKDAR
EKLLQKDARFRIKGVQDAREMLNSRKQQTTPQKPRQVADAREKISLKRSSPAAFINPPIGTVTPALKLTCTIQ
VPQQKAMAPLHPHPAGMRINVVNNHQAKONLYDLDEDDDDGIASVPTKQMKFAASGGFLHHMAGLSSSKLSMSKAL
PLTKVVQNDAYTAPALPSSIRTKALTNMSRTLNVNKEEPPKELPAAEPVLSPLEGTKMTVNNLHPRVTEEDIVELF
CVCGALKRARLVHPGVAEVVVFVKDDAITAYKKYNNRCLDGQPMKCNLHMNGNVITSDQPILLRLSDSPSMKKES
ELPRRVNSASSSNPPAEVDPDTILKALFKSSGASVTTQPTFEFKIKL

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FIGURE 6093

CCATATGGTGCTCTTCCCAGTCTGGTTCCCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCACGCCAGCCAT
CACCCTCGAGAGCCCCGGGTTCAGCCTGGCCTGCCCCTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCCCCTGGAG
CCCCTTCGGGAGCAGGGCTGTGTCCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCTGCTGGCACTTACT
GGTCCTTACCAGAGACGCCCAGCCCCATCCCTGTCCTCATGACCCCTCGTCCACCCCCACACACACTATAAGGC
TGAGGGCTGCCAGCAGCCCCGTCTGCCCACCATTTCCCGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACAT
GGGCAGCCCAAAGCTGCAGGTGCCAGGGCCCCACCCAGCCTCGCCTGTCACCCCACTCCCGCCTCAGGGCCAGG
CCCAGGCCTCACCACTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCC
AGGGCCCTGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGTCCTGGG
CTGGGGCCACCATCCCTGATGGCAGAACTCCCAACAACACATGTAATTTATTCCTCTGTCTAAACCGTCCCCCTCC
TTCCCTCACCCCCAGCACAGGGGGATTCTGAGCAGTGCCTCTTGTCTGAGGGACATATCAGTGACCTCGACGTTG
CCTTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTTTCAGAGTCATTTATGAGCAGAAAAAAAAAAG
TAAAACTTTGCTAATATT

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FIGURE 6094

CGCGACGGTCTCGGCGGGCGGGCGGGCGGGCGACAGAGCGAGCGCGGGCGGGGCCACCATGGGGGGCCAGCTCAG
CACGTTGGGCCATATGGTGCTCTTCCCAGTCTGGTTTCCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCAC
GCCAGCCATCACCTTCGAGAGCCCGGACATCAAGTACCCGCTGCGGCTCATCGACCGGGAGATCATCAGCCATGA
CACCCGGCGCTTCCGCTTTGCCCTGCCGTACCCCCAGCACATCCTGGGCCTCCCTGTGCGCCAGCACATCTACCT
CTCGGCTCGAATTGATGGAAACCTGGTTCGTCGCGGCCCTATACACCCATCTCCAGCGATGATGACAAGGGCTTCGT
GGACCTGGTCATCAAGGTTTACTTCAAGGACACCCATCCCAAGTTTCCCGCTGGAGGGAAGATGTCTCAGTACCT
GGAGAGCATGCAGATTGGAGACACCATTGAGTTCGCGGGGCCCCAGTGGGCTGCTGGTCTACCAGGGCAAAGGGAA
GTCGCCATCCGACCTGACAAAAAGTCCAACCCTATCATCAGGACAGTGAAGTCTGTGGGCATGATCGCGGGAGG
GACAGGCATCACCCCGATGCTGCAGGTGATCCGCGCCATCATGAAGGACCCTGATGACCACACTGTGTGCCACCT
GCTCTTTGCCAACCAGACCGAGAAGGACATCCTGCTGCGACCTGAGCTGGAGGAACTCAGGAACAAACATTCTGC
ACGCTTCAAGCTCTGGTACACGCTGGACAGAGCCCCCTGAAGCCTGGGACTACGGCCAGGGCTTCGTGAATGAGGA
GATGATCCGGGACCACCTTCCACCCCCAGAGGAGGAGCGCTGGTGTGATGTGTGGCCCCCACCATGATCCA
GTACGCTGCCTTCCCAACCTGGACCACGTGGGCCACCCACGGAGCGCTGCTTCGTCTTCTGAGGGCCGGGCAC
GGTCACACGGCCACCCGCCCCGCGCACCCACGCCCTGTTACGCTCACCCAGTCACCTCCCCACATCGCACACT
GGGGCCCCGGGTTAGCCTGGCCTGCCCCGTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCTTGGAGCCCCCTTC
GGGAGCAGGGCTGTGTCCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCCTGCCTGGCACTTACTGGTCCTT
ACCAGAGACGCCCAGCCCCATCCCTGTCTCATGACCCCTCGTCCACCCCCACACACACTATAAGGCTGAGGGC
TGCCAGCAGCCCCGTCTGCCCACCATTCGCGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACATGGGCAGC
CCAAAGCTGCAGGTGCCAGGGCCCCACCCAGCCTCGCCTGTACCCCCACTCCCGCCTCAGGGCCAGGCCCCAGGC
CTCACCACTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCCCAGGGCCC
TGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGCCCTCCCAGAACCT
CAGCATTTCTTCCAGCCCATCCAAACACTGAGGCAGCCTTGGGGAACCCCGAGCTGGGGGGTTGGCAGCCCACT
GCACCGCCTCAGGGTTTTGGGGTCTTGGGCTGGGGCCACCATCCCTGATGGCAGAACTCCCAACAACCACATGTAT
TTATTCTCTGTCTAAACCGTCCCCTCCTTCCCTCACCCCCAGCACAGGGGGATTCTGAGCAGTGCCTCTTGTC
TGAGGGACATATCAGTGACCTCGACGTTGCCTTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTTCA
GAGTCATTTATGAGCAGAAAAAAAAGTAAACCTTTGCTAATATT

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FIGURE 6095

AGCGGCCTGGCTAACTCCTGCCAGGCAGTGCCCTTCCCGGAGCGTGCCCTCGCCGCTGGTACGGCTCCTACCTGG
TCTGGAAAGAGCTGGGAGGCTTCACAGAGAAGGCTGTGGTTCCCCTGGGCCTCTACACTGGGCAGCTGGCCCTGA
ACTGGGCATGGGCCCCCATCTTCTTTGGTGCCCGACAAATGGGCTGGGCCTTGGTGGATCTCCTGCTGGTCAGTG
GGGCGGCGGCAGCCACTACCGTGGCCTGGTACCAGGTGAGCCCGCTGGCCGCGCCGCTGCTCTACCCCTACCTGG
CCTGGCTGGCCTTCGCGACCACACTCAACTACTGCGTATGGCGGGACAACCATGGCTGGCATGGGGGACGGCGGC
TGCCAGAGTGAGTGCCCGGGCCACCAGGGACTGCAGCTGCACCAGCAGGTGCCATCACGCTTGTGATGTGGTGGC
CGTCACGCTTTCATGACCACTGGGCCTGCTAGTCTGTTCAGGGCCTTGGCCAGGGGTCAGCAGAGCTTCAGAGGT
TGCCCCACCTGAGCCCCACCCGGGAGCAGTGTCTGTGCTTTCTGCATGCTTAGAGCATGTTCTTGGAACATGG
AATTTTATAAGCTGAATAAAGTTTTTGACTTCCTTT

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FIGURE 6096

MAPHLLWCPTNGLGLGGSPAGQWGGGSHYRGLVPGEPA GRPPALPLPGLAGLRDHTQLLRMAGQFWLAWGTAAAR
VSARPTRDCSCTSRCHHACDVVAVTLS

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FIGURE 6097

ATGGAGGCCGAGCGGGGTCCCGAGCGCCGGCCCTGCGGAGCGTAGCAGCCCGGGCCAGACGCCGGAGGAGGGCGCG
CAGGCCCTTGCCGAGTTCGCGGCGCTGCACGGCCCCGGCGCTGCGCGCTTCGGGGGTCCCCGAACGTTACTGGGGC
CGCCTCCTGCACAAGCTGGAGCACGAGGTTTTTCGACGCTGGGGAAGTGTTTGGGATCATGCAAGTGGAGGAGGTA
GAAGAGGAGGAGGACGAGGCAGCCCCGGGAGGTGCGGAAGCAGCAGCCCAACCCGGGGAACGAGCTGTGCTACAAG
GTCATCGTGACCAGGGAGAGCGGGCTCCAGGCAGCCCCACCCCAACAGCATCTTCCTCATCGACCACGCCTGGACG
TGCCGTGTGGAGCACGCGGCCAGCAGCTGCAGCAGGTGCCCCGGGCTGCTGCACCCGCATGGCCAACCTGATGGGC
ATTGAGTTCACGGTGAGCTGCCAGTACAGAGGCTGTGGCCCTGGTGCTGGAGGAGATGTGGAAGTTCAACCAG
ACCTACCAGCTGGCCCATGGGACAGCTGAGGAGAAGATGCCGGTGTGGTATATCATGGACGAGTTCGGTTCGCGG
ATCCAGCACGCGGACGTGCCCAGCTTCGCCACGGCACCCCTTCTTCTACATGCCGCAGCAGGTGGCCTACACGCTG
CTGTGGCCCCGTGAGGGACCTGGACACTGGCGAGGAGGTGACCCGAGACTTTGCCTACGGAGAGACGGACCCCTG
ATCCGGAAGTGATGCTGCTGCCCTGGGCCCCCACCAGCATGCTGGACCTCAGCTCTTGACACCCGAGCCGCC
GCCGAGCACTACCAGGCCATTCTGGAGGAAAACAAGGAGAAGCTGCCACTTGACATCAACCCCGTGGTGACCCCC
CACGGCCACATCTTCAAGGTCTACACGGACGTGCAGCAGGTGGCCAGCAGCCTCACCCACCCGCGCTTCACCTC
ACCCAGAGTGAGGCGGACGCCGACATCCTCTTCAACTTCTCACACTTCAAGGACTACAGGAAACTCAGCCAGGAG
AGGCCAGGCGTGCTGCTGAACAGTTCCCCTGCGAGAACCTGCTGACTGTCAAGGACTGCCTGGCCTCCATCGCG
CGCCGGGCAGGTGGCCCCGAGGGCCCCACCCTGGCTGCCCCGAACCTTCAACCTGCGCACTGAGCTGCCCCAGTTT
GTCAGCTACTTCCAGCAGCGGGAAAGGTGGGGCGAGGACAACCACTGGATCTGCAAGCCCTGGAACCTGGCGCGC
AGCCTGGACACCCACGTACCAAGAGCCTGCACAGCATCATCCGGCACCGAGAGAGCACCCCCAAGGTTGTGTCC
AAGTACATCGAAAGTCCCGTGTGTTCCTTCGAGAAGACGTGGGAAAGGTCAAGTTCGACATCCGCTACATCGTG
CTGCTGCGGTGAGTGAGGCCCCCTACGGTTGTTCTGTGTATGATGTGTTCTGGCTGCGGTTCTCCAACCGGGCCTTT
GCACTCAACGACCTGGATGACTACGAGAAGCACTTCACGGTCATGAACATGACCCGGATGTGGTGCTGAAGCAG
GTGCACTGTGAAGAGTTCATCCCCGAGTTTGAGAAGCAATACCCAGAATTTCCCTGGACGGACGTCCAGGCTGAG
ATCTTCCGGGCCTTCACGGAGCTGTTCCAGGTGGCCTGTGCCAAGCCACCACCCCTGGGCCTCTGCGACTACCCC
TCATCCCCGGGCCATGTATGCCGTGACCTCATGCTGAAGTGGGACAACGGCCAGATGGAAGGCGGGTGATGCAG
CCGAGATCCTGGAGGTGAACCTCAACCCCGACTGTGAGCGAGCCTGCAGGTACCACCCCACCTTCTTCAACGAC
GTCTTCAGCACCTTGTTTCTGGACCAGCCCGGTGGCTGCCACGTTACCTGCCTTGCT**TAG**GCACTCGCTGTCCCC
AAAACCTGTGCTTGGGGCAGGATTCAAACCTCAGTTCTCTGAGCTGCTTCTGCAAGGCCCCCATGTCCCTCCCC
ACCCGGCCCTGGGCATAGCCTCAGCCCCAGGCCTCTGTCTGCCGAGCCATCCTCCCGGCGCCACACTCCGGGA
GCACAGCATCCTCCTCTACCTGTGGGTGAGAGCAGGACAGTGATGGTGTCCTCCAGGGCTGAGCACCACCCACG
CCCTGCCCTCACCCCTCACCACCATCTGTGCACTGATGAGTCTCCAGTTTAGCCAAGGGCTTTGTTCTCTGGCATG
GAGAATTTGTTCTGGCTGCTGTGTTTCCAGGGGGTGCTGGGGGAAGGGTTCCGTGGAGCGAGACAAGGTGTCTT
CGGGAGCAGGGTTCCACCGGAAGCGTTTGGGAGCCCTGTATCACACGGGGCAGGCGGGTTTCTCTTCCGGGGTC
TCTGCTCTTATGCATCAGGACGACCCCGGGACGGCTGTGGGGCCCCACACTGCACCCACAGGGCTCTATGCGACA
GGGGCCCAGGAACAGCCTGAGGCCACCACCCAGCAAGCCCGCTTATCACCCATTCCAGCTCACCCAGAACCTTC
ACCAGCAAACCTCCTGCTGAGGTCTTGGCAGGAGGCCACCGTCTTGTTACCGTTTCTTTTTCGTTTGCTGAGGGT
CACAGACCCCAACAGGGAATCAGTATCTGTCTTCCAGTGGTTGCCCTGCTCGCCGGGCACTCCACGGGTCTCC
GCCCTTGTTGAGATGGGCCAGGATCCTTCGGCAAGGGGCGCCTGGGGCTGGGGCTGATTGTGGGCGGTGGAGCG
CCAGACAGAAAAGGATTCCAATGAGAACTTCAGGTTAAAGTCAGATGCCACCTACCAGGGTCTACAGTCAAATG
TTGGCTTTTTTCTTATTTTTTAATGTATGGGAGAAAAATGTAAAAATCCAGTCTTTTTCTAATTGTGTTTCTGAAA
TTAGGAGTCAGCTGCCAGCGTTTTTGTGTGGCTGCAGTGTGCCTGGGCCCAGCTCACGGGCAGTGGGTGGACCTA
ACTGCCCAGGCAGGCGAGAGCTACTTCCAGAGCCTTCCAGTGCATGGGAGGGCAGGGCTAGGTGTAGCGGTGTCT
CCTCTTTGAAATTAAGAATATCTTTCTTGTAGCAAAGCTGCACCTGATGATGCTGCCTCTCCTCTCTGTGTTGT
CTGGGCCCCTTGTTTACAAGCACGCGTTACCCCTTCTGAGGGGAGCCATGCTCTAGCCCCTGGAGGGCCTGTTGCA
GGGGCAGGGCGGGCCCGTGCCTTTGGCAGCTCCTGGAGAGCTGTGGACATGCAGTCCCCCTCAGTTCGTGCTGC
AATAAAGGCCATCTTCTCTTA

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FIGURE 6098

MEAERGPERRPAERSSPGQTPEEGAQALAEFAALHGPALRASGVPERYWGRL LHKLEHEVFDAGEVFGIMQVEEV
EEEEDEAAAREVRKQQPNPGNELCYKVIVTRESGLQAAHPNSIFLIDHAWTCRVEHARQQLQQVPGLLHRMANLMG
IEFHGELPSTEAVALVLEEMWKFNQTYQLAHGTAEKMPVWYIMDEFGSRIQHADVPSFATAPFFYMPQQVAYTL
LWPLRDLDTGEEVTRDFAYGETDPLIRKCM LLPWAPTDMLDLSSCTPEPPAEHYQÀILEENKEKLPLDINPVVHP
HGHIFKVYTDVQQVASSLTHPREFTLTQSEADADILFNFSHF KDYRKLSQERPGVLLNQFPCENLLTVKDCLASIA
RRAGGPEGPPWLPRTFNLRTELPQFVS YFQQRERWGEDNHWICKPWNLARS LDTHVTKSLHSIIRHRESTPKVVS
KYIESPVLF LREDVGKVKFDIRYIVLLRSVRPLRLFVYDVFWLRF SNRAFALNDLDDYEKHFTVMNYDPDVVLKQ
VHCEEFIPEFEKQYPEFPWTDVQAEIFRAFT ELFQVACAKPPPLGLCDYPSSRAMYAVDLMLKWDNGPDGRRVMQ
PQILEVNFNPD CERACRYHPTFFNDVFSTLFLDQPGGCHVTCLV

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FIGURE 6099

GCGGGGAATCATGGCCGCCCCCAGTGTTCGCGCTCCGGGGGTTTGTGGGAGTTGCCTTGACCTGCAGCTCCGCCA
CCGCGGACCCGCCTTCTGCCCTCAGCAGCAGACGCTCTGTCCCGCCCGGGCAGCTCTGCGAGGCAGCGGCTGGAG
AGGGAACCATGGGGACTGTGCACGCCCGGAGTTTGGAGCCTCTTCCATCAAGTGGACCTGATTTTGGAGGATTAG
GAGAAGAAGCTGAATTTGTTGAAGTTGAGCCTGAAGCTAAACAGGAAATTCTTGAAAACAAAGATGTGGTTGTTT
AACATGTTTCATTTTGATGGACTTGGAAGGACTAAAAGATGATATCATCATTTTGTGAAATTGGAGATGTTTTCAAGG
CCAAAACCTAATTGAGGTAATGCGGAAATCTCATGAAGCCCGTGAAAAATTGCTCCGTCTTGGAATTTTGTAGAC
AAGTGGATGTTTTGATTGACACATGTCAAGGTGATGACGCACCTTCCAAATGGGTTAGACGTTACCTTTGAAGTAA
CTGAATTGAGGAGATTAAACGGGCAGTTATAACACCATGGTTGGAAACAATGAAGGCAGTATGGTACTTGGCCTCA
AGCTTCCTAATCTTCTTGGTCGTGCAGAAAAGGTGACCTTTTCAGTTTTCTATGGAACAAAAGAACTTCGTATG
GCCTGTCTTCTTCAAACACGGCCCGGAAACTTCGAAAGAAATTTCTCTGTAAACTTATATAAAGTTACTGGAC
AGTTCCTTGGAGCTCACTGCGGGAGACGGACAGAGGAATGTCAGCTGAGTACAGTTTTCCCATATGGAAGACCA
GCCACACTGTCAAGTGGGAAGGCGTATGGCGAGAAGTGGGCTGCCTCTCAAGGACGGCGTCATTTGCTGTTTCGAA
AAGAAAGCGGACATTCAGTGAAATCATCTCTTTTCGCACGCCATGGTCATCGATTCTCGGAATTTCTCCATCTTAC
CAAGGAGAGGTGCTTTGCTGAAAGTTAACCAGGAAGTGGCAGGCTACACTGGCGGGGATGTGAGCTTCATCAAAG
AAGATTTTGAACCTCAGTTGAACAAGCAACTCATATTTGATTTCAGTTTTTTCAGCGTCTTTCTGGGGCGGAATGT
TGGTACCCATTGGTGATAAGCCGTCAAGCATTGCTGATAGGTTTTACCTTGGGGGACCCACAAGCATCCGCGGAT
TCAGCATGCACAGCATCGGGCCACAGAGCGAAGGAGACTACCTAGGTGGAGAAGCGTACTGGGCCGGCGGCCTGC
ACCTCTACACCCCATACCTTTCCGGCCAGGCCAGGGTGGCTTTGGAGAAGCTTTCCGAACACACTTCTTTCTCA
ACGCAGGAAACCTCTGCAACCTCAACTATGGGGAGGGCCCCAAAGCTCATATTCGTAAGCTGGCTGAGTGCATCC
GCTGGTCGTACGGGGCCGGGATTGTCTCAGGCTTGGCAACATCGCTCGGTTGGAACTTAATTACTGCGTCCCCA
TGGGAGTACAGACAGGCGACAGGATATGTGATGGCGTCCAGTTTGGAGCTGGGATAAGGTTTCTGTAGCCGACAC
CCCTACAGGAGAAGCTCTGGGACTGGGGCAGCAGCAAGGCGCCCATGCCACACACCGTCTCTCGAGGAAACGCGG
TTCAGCGATTCTTTGACTGCGGACCCTGTGGGAAACCCCGTCAATAAATGTTAAAGACACACTC

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FIGURE 6100

MGTVHARSLEPLPSSGPDFGGLGEEAEFVEVEPEAKQEILENKDVVVQHVHFDGLGR TKDDIIICEIGDVFKAKN
LIEVMRKSHEAREKLLRLGIFRQVDVLIDTCQGDDALPNGLDVTFEVTELRRLTGSYNTMVGNNEGSMVLGLKLP
NLLGRAEKVTFQFSYGTKETS YGLSFFKPRPGNFERNF SVNLYKVTGQFPWSSLRETDRGMSAEYSFPIWKT SHT
VKWEGVWRELGCLSR TASFVRKESGHS LKSSL SHAMVIDSRNSSILPRRGALLKVNQELAGYTGGDV SF IKEDF
ELQLNKQLIFDSVFSASF WGGMLVPIGDKPSSIADRFYLG GPTSIRGFSMHSIGPQSEG DYLGGEAYWAGGLHLY
TPLPFRPGQGGFGELFRTHFFLNAGNLCNLNYGEGPKAHIRKLAECIRWSYGAGIVLRLGN IARLELNYCVPMGV
QTGDRICDGVQFGAGIRFL

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FIGURE 6101

ATGGAGCCGGAGTTCTTGTACGACCTGCTGCAGCTCCCCAAGGGGGTGGAGCCCCCAGCGGAGGAGGAGCTCTCA
AAAGGAGGAAAGAAGAAATACCTGCCACCCACTTCCCGGAAGGACCCCAAATTTGAAGAACTGCAGAAGGTGTTG
ATGGAGTGGATCAATGCCACTCTTCTCCCCGAGCACATTGTGGTCCGCAGCCTGGAGGAGGACATGTTGACGGG
CTCATCCTACACCACCTATTCCAGAGGCTGGCGGCGCTCAAGCTGGAAGCAGAGGACATCGCCCTGACAGCCACA
AGCCAGAAGCACAAGCTCACAGTGGTGCTGGAGGCCGTGAACCGGAGTCTGCAGCTGGAGGAGTGGCAGGCCAAG
TGGAGCGTGGAGAGCATCTTCAACAAGGACCTGTTGTCTACCCTGCACCTCCTTGTGGCCCTGGCCAAGCGCTTC
CAGCCCGACCTCTCCCTCCCAACCAACGTCCAGGTGGAGGTCACTACTATCGAGAGCACCAAAAGTGGTCTGAAG
TCAGAGAAGTTGGTGGAAACAGCTCACTGAATACAGCACAGACAAGGACGAGCCTCCAAAGGACGTCTTTGATGAA
TTATTTAAGCTGGCTCCGGAGAAAGTGAACGCAGTGAAAGAGGCCATCGTGAACCTTTGTCAACCAGAAGCTGGAC
CGCCTGGGCCTGTCTGTGCAGAATCTGGACACCCAGTTTGCAGATGGGGTCATCTTACTCTTGCTGATTGGACAA
CTTGAAGGCTTCTTCCTGCACTTAAAGGAATTCTACCTCACTCCCAACTCTCCTGCAGAAATGCTGCACAACGTC
ACCCTGGCGCTGGAGCTGCTGAAGGACGAGGGCCTGCTCAGCTGCCCTGTCAGCCCTGAAGATATCGTGAACAAG
GATGCCAAGAGCACACTGCGGGTGCTCTATGGTCTGTTCTGCAAGCACACGCAGAAGGCACACAGGGACAGGACG
CCCCATGGAGCCCCGAATTGA

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FIGURE 6102

MEPEFLYDLLQLPKGVEPPAEEELSKGGKKKYLPTSRKDPKFEELQKVLMEWINATLLPEHIVVRSLEEDMFDG
LILHHLFQRLAALKLEAEDIALTATSQKHKLTVVLEAVNRSLQLEEWQAKWSVESIFNKDLLSTLHLLVALAKRF
QPDLSLPTNVQVEVITIESTKSGLKSEKLVEQLTEYSTDKDEPPKDVDFELFKLAPEKVNAVEAIVNFVNQKLD
RLGLSVQNLDQTQFADGVILLILLIGQLEGFFLHLKEFYLTNPSPAEMLHNVTLALELLKDEGLLSCPVPEDIVNK
DAKSTLRVLYGLFCKHTQKAHRDRTPHGAPN

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FIGURE 6103

CTGAGCCTCTCCGTGCAATGATTAACCCGGCGGGGCGGCCGGCGCGGGACCCGAGACGGAGGCGCGGGGCCGGGG
CGGGACCCCGCAGGACCGCTCGGCTTCCTGCTCTCGCCGGAGTTTCCGCGTAGAGGGCGCATCGCCGGCCCGGGG
CCCTTGGTGCGGCGTGGCGCAGGGCGCGGGCGTGGGGCGCGCGTGGGCGCGGCCGAGGCGGCCCGGGTCACCATGA
GGACTCTCCGCAGGTTGAAGTTCATGAGTTCGCCCAGCCTCAGTGACCTGGGCAAGAGAGAGCCGGCCGCCGCCG
CGGACGAGCGGGGCACGCAGCAGCGCCGGGCCTGCGCCAACGCCACCTGGAACAGCATCCACAACGGGGTGATCG
CCGTCTTCCAGCGCAAGGGGCTGCCCGACCAGGAGCTCTTCAGCCTCAACGAGGGCGTCCGGCAGCTGTTGAAGA
CAGAGCTGGGGTCCTTCTTACGGAGTACCTGCAGAACCAGCTGCTGACAAAAGGCATGGTGATCCTTCGGGACA
AGATTGCTTCTATGAGGAGCTGCAGAGAGACAAGGCGGCGGGCGTGTGTGCTGGGTGCAGTGAGGAAGAGGC
CCTCGGTGGTGCCCATGGCTGGCCAGGATCCTGCGCTGAGCACGAGTCACCCGTCTACGACGTGGCCAGACATG
GCATTCTGCAGGTGGCAGGGGATGACCGCTTTGGAAGACGTGTTGTACGTTACAGTGTCTGCCGGATGCCACCT
CCCACGAGCTGGACCACCAGCGGCTGCTGGAGTATTTGAAGTACACACTGGACCAATACGTTGAGAACGATTATA
CCATCGTCTATTTCCACTACGGGCTGAACAGCCGGAACAAGCCTTCCCTGGGCTGGCTCCAGAGCGCATACAAGG
AGTTCGATAGGAAAGACGGGGATCTCACTATGTGGCCAGGCTGGTCTCGAACTCCAAGCTCAAGCGATCCTCCC
ACCTCAGCCTCCCAAAGTACTGGGATTACAGGTACAAGAAGAACTTGAAGGCCCTCTACGTGGTGCACCCACCA
GCTTCATCAAGGTCTGTGGAACATCTTGAAGCCCCTCATCAGTCACAAGTTTGGGAAGAAAGTCATCTATTTCA
ACTACCTGAGTGAGCTCCACGAACACCTTAAATACGACCAGCTGGTTCATCCCTCCCGAAGTTTTCGGGTACGATG
AGAAGCTCCAGAGCCTGCACGAGGGCCGGACGCCGCTCCACCAAGACACCACCGCCGCGGCCCGCTGCCCA
CACAGCAGTTTGGCGTCAGTCTGCAATACCTCAAAGACAAAATCAAGGCGAACTCATCCCCCTGTGCTGAGGT
TCACAGTGACGTACCTGAGAGAGAAAGGCCTGCGCACCGAGGGCCTGTTCCGGAGATCCGCCAGCGTGCAGACCG
TCCGCGAGATCCAGAGGCTCTACAACCAAGGGAAGCCCGTGAACCTTGACGACTACGGGGACATTACATCCCTG
CCGTGATCCTGAAGACCTTCTGCGAGAGCTGCCCCAGCCGCTTCTGACCTTCCAGGCCTACGAGCAGATTCTCG
GGATCACCTGTGTGGAGAGCAGCCTGCGTGTCACTGGCTGCCGCCAGATCTTACGGAGCCTCCAGAGCACAACT
ACGTGCTCCTCCGCTACCTCATGGGCTTCTGTCATGCGGTGTCCCGGGAGAGCATCTTCAACAAAATGAACAGCT
CTAACCTGGCCTGTGTCTTCGGGCTGAATTTGATCTGGCCATCCAGGGGGTCTCCTCCCTGAGTGCCCTTGTGC
CCCTGAACATGTTCACTGAACTGCTGATCGAGTACTATGAAAAGATCTTCAGCACCCCGAGGCACCTGGGGAGC
ACGGCCTGGCACCATGGGAACAGGGGAGCAGGGCAGCCCTTTGCAGGAGGCTGTGCCACGGACACAAGCCACGG
GCCTCACCAAGCCTACCTACCTCCGAGTCCCCTGATGGCAGCCAGAAGACGTCTCTAGTGTGCGAACACTCTG
TATATTTGAGCTACCTCCACACCTGTCTGTGCACTTGTATGTTTTGTAACTTGGCATCTGTAAAAATAACCA
GCCATTAGATGAATTCAGAACCTTCTAATGAAAACCTCATGCCTCTGGTCCTTGGACTCTTGTCCATGGTTCCTG
AGCTGTGGACCGGGATAGAAT

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FIGURE 6104

GGCCCAGGCTGAAGCTCAGGGCCCTGTCTGCTCTGTGGACTCAACAGTTTGTGGCAAGACAAGCTCAGAACTGAG
AAGCTGTCACCACAGTTCTGGAGGCTGGGAAGTTCAAGATCAAAGTGCCAGCAGATTCAAGTGTGATGTGAGGACG
TGCTTCCTGCTTCATAGATAAGAGCTTGGAGCTCGGCGCACAACCAGCACCATTCTGGTTCGCGATGGTGGACACGG
AAAGCCCCTCTGCCCCCTCTCCCCACTCGAGGCCGGCGATCTAGAGAGCCCCGTTATCTGAAGAGTTCTGCAAG
AAATGGGAAACATCCAAGAGATTTTCGCAATCCATCGGCGAGGATAGTTCTGGAAGCTTTGGCTTTACGGAATACC
AGTATTTAGGAAGCTGTCTGGCTCAGATGGCTCGGTCATCACGGACACGCTTTTACCAGCTTCGAGCCCCCTCT
CGGTGACTTATCTGTGGTCCCCGGCAGCGTGGACGAGTCTCCAGTGGAGCATTGAACATCGAATGTAGAATCT
GCGGGGACAAGGCCTCAGGCTATCATTACGGAGTCCACGCGTGTGAAGGCTGCAAGGGCTTCTTTTCGGCGAACGA
TTTCGACTCAAGCTGGTGTATGACAAGTGCACCGCAGCTGCAAGATCCAGAAAAAGAACAGAAACAAATGCCAGT
ATTGTCGATTTACAAAGTGCCTTTTCTGTGGGATGTACACAACGCGATTTCGTTTTGGACGAATGCCAAGATCTG
AGAAAGCAAACTGAAAGCAGAAATTCTTACCTGTGAACATGACATAGAAGATTCTGAAACTGCAGATCTCAAAT
CTCTGGCCAAGAGAATCTACGAGGCCTACTTGAAGAACTTCAACATGAACAAGGTCAAAGCCCGGGTCACTCTCT
CAGGAAAGGCCAGTAACAATCCACCTTTTGTCTATCATGATATGGAGACACTGTGTATGGCTGAGAAGACGCTGG
TGGCCAAGCTGGTGGCCAATGGCATCCAGAACAAGGAGGCGGAGGTCCGCATCTTTCACTGCTGCCAGTGCACGT
CAGTGGAGACCGTACGGAGCTCACGGAATTCGCCAAGGCCATCCCAGGCTTCGCAAACTTGGACCTGAACGATC
AAGTGACATTGCTAAAATACGGAGTTTATGAGGCCATATTCGCCATGCTGTCTTCTGTGATGAACAAAGACGGGA
TGCTGGTAGCGTATGGAAATGGGTTTATAACTCGTGAATTCCTAAAAAGCCTAAGGAAACCGTTCTGTGATATCA
TGGAACCCAAGTTTGATTTTGCCATGAAGTTCATGCACTGGAACCTGGATGACAGTGATATCTCCCTTTTTGTGG
CTGCTATCATTTGCTGTGGAGATCGTCTGGCCTTCTAAACGTAGGACACATTGAAAAATGCAGGAGGGTATTG
TACATGTGCTCAGACTCCACCTGCAGAGCAACCACCCGGACGATATCTTTCTCTCCCAAACTTCTTCAAAAA
TGGCAGACCTCCGGCAGCTGGTGACGGAGCATGCGCAGCTGGTGCAGATCATCAAGAAGACGGAGTCGGATGCTG
CGCTGCACCCGCTACTGCAGGAGATCTACAGGGACATGTACTGAGTTTCCTTCAGATCAGCCACACCTTTTCCAGG
AGTTCTGAAGCTGACAGCACTACAAAGGAGACGGGGGAGCAGCAGATTTTGACAAAATATCCACCACTTTAACC
TTAGAGCTTGGACAGTCTGAGCTGTAGGTAACCGGCATATTATCCATATCTTTGTTTTAACCAGTACTTCTAAG
AGCATAGAACTCAAATGCTGGGGGAGGTGGCTAATCTCAGGACTGGGAAG

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FIGURE 6105

MVDTESPLCPLSPLEAGDLESPLSEEFLOEMGNIQEISQSIGEDSSGSFGFTEYQYLGSCPGSDGSGSVITDTLSPA
SSPSSVTYPVVPGSVDESPSGALNIECRICGDKASGYHYGVHACEGCKGFFRRTIRLKLVDKCDRSCKIQKKNR
NKCQYCRFHKCLSVGMSHNAIRFGRMPRSEKAKLKAELTCEHDIEDSETADLKSLAKRIYEAYLKNFNMNKVKA
RVILSGKASNPPFVIHDMETLCMAEKITLVAKLVANGIQNKEAEVRIFHCCQCTSVETVTELTEFAKAIPGFANL
DLNDQVTLLKYGVYEAIFAMLSSVMNKDGMLVAYGNFITREFLKSRLKPFCDIMEPKFDFAMKFNALELDDSDI
SLFVAAIICGDRPGLLNVGHIEKMQEGIVHVLRLHLQSNHPDDIFLFPKLLQKMADLRQLVTEHAQLVQIIKKT
ESDAALHPLLQEIYRDMY

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FIGURE 6106A

CAACTTCCGGAAGGAGGCGGAAGAGCTTCTCGGCTCTAGGCTCTGGAGTCCCAGGAGCAGTGAGGGGCCACCCGG
GGCACAGGAAAGGGCCGCTAGGGGAGGGCCGGGTGCACTCGGGGTGTCTGGGCCGCGGGTCTGAGGGATGAGGAG
GGGCCATGGCCAGCGACGGGGCCAGGAAGCAATTCTGGAAGCGCAGCAACAGCAAGCTCCCAGGAGCATCCAGC
ACGTGTATGGTGCCAGCACCCCCCTTTGATCCACTGTTACATGGCACTTTGCTCAGGTCCACGGCCAAGATGC
CGACCACACCAGTGAAGGCCAAGAGGGTCAGCACCTTCCAGGAGTTTGAGAGCAATACCAGCGATGCCTGGGACG
CTGGGGAGGACGACGATGAGCTCCTGGCCATGGCGGCGGAGAGCCTGAACTCCGAGGTGGTTCATGGAGACGGCCA
ACCGTGTGCTGCGTAACCACAGCCAGCGGCGAGGGGCGGCCCCACGCTGCAGGAGGGGGCCAGGGCTTCAGCAGAAGC
CCAGGCCCCGAGGCAGAGCCGCCCTCACCCCCCAGCGGCGACCTCCGGCTGGTGAAGTCGGTCAGTGAGAGCCACA
CGTCTGTCTGTCAGAAAGTGCCAGCGATGCCGCCCTCTGCAGAGGTCCCAGTCTCTCCACACTCGGCCACCG
TCACGCTGGGTGGCACATCTGACCCACGACTCTCAGCAGCTCAGCGCTGAGCGAAAGAGAGGGCCTCCCGGCTCG
ACAAGTTCAGCAGCTGCTTGCCGGCCCCAACACGGACCTTGAGGAATTACGGAGGTTGAGCTGGTCCGGAATCC
CTAAGCCAGTGCGTCCAATGACGTGGAAGCTCCTCTCAGGTTACCTTCCCGCCAATGTAGACCGGAGACCAGCCA
CTCTCCAGAGAAAACAAAAGAATATTTGCAATTTATTGAGCACTATTACGATTCTAGGAACGACGAAGTTCACC
AGGACACATACAGGCAGATCCACATAGACATCCCTCGCATGAGCCCTGAAGCGTTGATCCTGCAGCCCCAAGGTGA
CGGAGATTTTGAAGGATCTTGTTTCATATGGGCGATCCGCCACCCAGCCAGTGGATACGTTTCAGGGTATAAATG
ATCTCGTCACTCCTTTCTTTGTGGTCTTCATTTGTGAATACATAGAGGCAGAGGAGGTGGACACGGTGGACGTCT
CCGGCGTGCCCGCAGAGGTGCTGTGCAACATCGAGGCGGACACCTACTGGTGCATGAGCAAGCTGCTGGATGGCA
TTCAGGACAACCTACACCTTTGCCCAACCTGGGATTCAAATGAAAGTGAAAATGTTAGAAGAACTCGTGAGCCGGA
TTGATGAGCAAGTGACCCGGCACCTGGACCAACACGAAGTGAGATACCTGCAGTTTGCCTTCCGCTGGATGAACA
ACCTGCTGATGAGGGAGGTGCCCTGCGTTGTACCATCCGCTGTGGGACACCTACCAGTCTGAACCGGACGGCT
TTTCTCATTTCCACTTGTACGTGTGCGCTGCTTTCTCGTGAGATGGAGGAAGGAAATACTAGAAGAAAAAGATT
TTCAAGAGCTGCTGCTCTTCTCCAGAACCTGCCACAGCCCACTGGGATGATGAGGACATCAGCCTGTTGCTGG
CCGAGGCCCTACCGCTCAAGTTTGCTTTTGCCGACGCCCCAATCACTACAAGAAATGAGCCCAGGCCACCCGC
AGCTGGCCTCACTGTCCCGGTGGCGCGCCCCACCTGCCTGGCTGGTGGTAGGCCCTGTGAGCTGGTCCCGGGC
TGCTAAAAGGCCTTGTGAGGTGGCCCCACCTCCAGGGGAGCTGGTGAAGATGGGCCACAGACCTGGTCTAGGGC
TGACAAAGACAGGGACAGCCTTTGTTTTCTGAGATACCAAAGAGAGCCAGGGGAGGCCCGGGTTCGGCGGCCA
GAGGCAGGTGAGGGGTCCCTCTCCCTCTCCCTGCAATGTCTTGCCTGCAATGACTGCCTGTGCTGCCCTAGTC
CGGGGACGCTAGGAGCCGACCTCTTTGGAGTCTGCTGGGTGCCAGGGCCGGAACGAGGTAGTGGCCA
TCTCATACCTACTCTGAAATGCAAACTTCTATTCTGTTGAGTGAAAGAATAAAATGTAGACAAAATCTAGACCG
AGACGTTGCGCTGACCCGGGGTCTCTGTGCCGAGGTCCTTCACAGCTGTATTTCACTGCTGCTGGCCCTTTC
CCTCCGTGTGTTTTCTGCTTGCTTGTTTAAACGTGGCTGGGAAGCTGAAGGCTGGAGTCCAAGCCGTGAGCCC
GCCGAGTGCTGGGAGGCCGTGGGACCAAAGGCTGGGAGCAGAGGGAGGCCTCGCCATCGCCTTACTTTCCACCT
TGAACCTCTTTTACAAGAGAGAAACCCCCACCTCCCTGAGGTCCAGGGCCAAGTGGCCCCGCCACGCAGGTAGGC
GCCGGCCTCAGCCAGAGCCCTGGAGGCCACCCAGGCTGTGCGGCCATGTTGGGCTGGCAGACGGGCAGGGGT
CGCGTCCCTGTCTCAAAGCCCTGAACCACAGTGCTCTTCTCACCGCAGCCTGGAAGCGGAATGAGCTTTTGAG
ACTTCTGGGACTTGCTGTCTTGTCCAGGTCTGCCAGGTGTAGGGGAGGTGTGACTGGTTCCATCATGGACCGG
TTCTTCCATGGACCGGTTCTCCGTGGACCGGTTCCGCCATGGACCGGTTCCGCCATGGACCACTCCTGCCCTGG
ACCACTCCTGCCCTGGACCGGTTCTGCCGTGGACTGGTTCCCGCGGTGGACAGTTCCTGCTGTATACTGGTTCT
GCCCTGGACTGGTTCCCGCTGTGGACTGGTTCCCTGGGGCTCTAAGTGCGGAAGGGCCAGAGCTGGTCCCTGCC
CAGCGCCCTGCTAGGGCTGTGCTTGGCTCCAGGGCCTTGGGACTGGCTTCCAGCGTTCCCTCGGTGTGTCA
CAGGCTGCATGACCCCTGGAATGCGGGCAGGGCCACAGCCACAGTCTGTCTGATCCCTGAGCCCAGGACAGGCTC
ACGTCTCAGCGACCCACTGGTGACTGACTTCCAGACTCTCCTCTGTCCCTCAGGAGCAGCCGTGTCTCTCCC
AGGCCCTAGGACACTGCCAGAGACTGTGGGACATACAGGCATAAGTGATGTGTGTGTTTCTGCTTCTGTTTTAAA
AATCCAGGGTCATTACACACAGCATGGAATTAGCACAAAATGCTGTGCAAACGTCAGATGCTCCCAAACCAGCA
AAGGGATGGGCTTGCTTCACATCAGATGCGGGCAGCCTTACCCCTGCCTTCCGTGTCCCCACCCAGGGTCAAG
GGTTCCTCAGACCAGCCATGCCTCCTCCTCCTGCCGCTCCTTTTCTAGATGGGGAGGGGATTCCGTCACAAGAA
GAGCCGCCCTCGGCCGTGTGCAGGAAGCCCCATGTCGCTTTGCCGAGATCAGCCCTGGGAGGATCCCTTCTCC
AGCTCAGATCATGCCGTGTGGCCAGAAGGCTGCGGACACAACCTGACCTGCTTCTCGAGGTGGTTGATGTTTTAAA

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FIGURE 6106B

CAGGAAGCTCCACGGAGTTCAGCCCTGTGTGCATTTCTCATGTATGTAAACGCCAAGACTGAATGTGAGAGGTG
TTGGCCGCGGGCCTTAAGTCTGAGCAGATCCATCTGGAATGTTGCGGGTGTGCTGTCTGGATGTGGTGCCTAAA
AACACGGAATAAAGATCAGTGAC

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FIGURE 6107

MASDGARKQFWKRSNSKLPGSIQHVGAGHPPFDPLLHGTLRLSTAKMPTTPVKAKRVSTFQEFESNTSDAWDAG
EDDDELLAMAAESLNSEVVMETANRVLRNHSQRQGRPTLQEGPGLQKPRPEAEPPSPPSGDLRLVKSSESHTS
CPAESASDAAPLQRSQSLPHSATVTLGGTSDPSTLSSSALSEREASRLDKFKQLLAGPNTDLEELRRLSWSGIPK
PVRPMTWKLLSGYLPANVDRRPATLQRKQKEYFAFIEHYYSRNDDEVHQDTYRQIHIDI PRMSPEALILQPKVTE
IFERILFIWAIRHPASGYVQGINDLVTPFFVVFICEYIEAEVDTVDVSGVPAEVL CNIEADTYWCMSKLLDGIQ
DNYTFAQPGIQMKVKMLEELVSRIDEQVHRHLDQHEVRYLQFAFRWMNNLLMREVPLRCTIRLWDTYQSEPDGFS
HFHLYVCAAFVVRWRKEILEEKDFQELLLFLQNLPTAHWDDEDISLLLAAYRLKFAFADAPNHYKK

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FIGURE 6108A

GTCCGGCGGCGTCGCGGGCGGCGGGCGGCGGGGCGCGGGAGGGGCGCGGGGGCAGACAAAGCCGCGGTAATGAA
TGGAGCGTCCGCCCGCGCCGCCGTCGTCCGCAGCCGGCCGGGAGCCGCCCCAGAGGCGGGCCGAGGTAATGCAC
AAGGGTCACGTGTATGCTCTCAAGATGATCAGGCAGATCCTGTCTCAGGACCAGAAGCACGTCTCTGCTGCACA
CATTGTTGTCTACACCATGAGTGTITAGTAGCAGGACTCTTGAAAGCAGTGATCTATGCTGTAAGACCATGAGT
CACAGATTCTTTTTTTCAGTACTATTTATGATTAGCCATATTTCTAGAAACATCCTGAAAGATGGAATTATGACG
AAAAAGTGAAGATAATCTACATTTCGGGGGCGACAAATGAGCACTTGGAATCAGTGTTTTATGAACCTAAGATACAGC
CGGAGTAGTTATGGTCAGTCATGGAGAATAAATTGAAACTTGTCCCAAAGAGGACGGTGATTTCTGTTTCTGATA
AAATAAAGTTTAAATAGAAAGAGGAAGATGATGATGGAATTCCTCCTGATAGTTTGGAAAGAATGGACTTTAAAA
GCGAGCAGGAGGACATGAAGCAGACAGACAGCGGTGGGGAGCGAGCGGGCCTCGGTGGGACGGGTTGCAGCTGCA
AGCCCCCGGGGAAGTACTTGTCTGCAGAGAGTGAGGATGACTATGGCGCGCTGTTCTCCAGTACAGCAGCACCC
TATACGACGTGGCCATGGAGGCGGTGACCCAGAGCCTCCTTTCCAGCCGGAACATGAGCTCCAGGAAGAAGTCTC
CAGCCTGGAAGCATTTTTTATCTCTCCCCGAGACAGCACTAAAGCAATATGCATGTACTGTGTGAAGGAGTTCA
GCAGAGGCAAAACGAGAAAGACTTGAGTACCAGTTGTCTCATGAGGCACGTGAGGCGCGCACACCCGACCGTGC
TCATTACAGGAAATGGCAGTGTGTCTGCCGTGTCTCCTGTTCCCTCTCCTCCTCCTGCTTCCACCACAGCCTG
CGGACGCGGGTGACCTCAGCACCATCTCTCACCCATCAAACCTTGTCAGAAAGTGGCGTCTAAGATCCCGTCCC
CCGATCGAATAACAGAGGAGTCTGTGTCTGTAGTTTCTTCTGAAGAAATCTCCTCTGACATGTCCGTTTCGGAGA
AGTGCGGCAGAGAAGAAGCCCTGGTGGGGTCTGTCTCCCCACCTCCCTGCTCTCCATTACGATGAACCTGCAGAGA
ACTTAGCGGAGAAGAGCCTTCCACTTCCAAAGAGCACCTCTGGGTCCAGGAGAAGGTCCGCTGTCTGGAAGCACT
TCTACCTGTGCGCACTGGACAACCTCCAAAGCTGTCTGCATTCACTGCATGAACGAGTTCAGCCGGGGGAAGAATG
GGAAGGACCTGGGCACGAGCTGCCTCATCAGGCACATGTGGAGGGCACACCGCGCCATCGTGTTCAGGAGAACG
GGGGCACGGGCATCCCGCCACTGTACTCCACCCCTCCCACTCTGCTGCCTTCTTGCTGCCGCCGGAGGGGGAGC
TCAGCTCTGTGTCTCGTCTCCAGTAAAGCCGGTCAGAGAGTCCCCTTCGGCCTCCTCCTCCCTGACAGGCTGA
CTGAGGACTTGAGTCTCACTTGAACCTGGAGATGGGCTGATGGAAGACGTGGCGGCCTTCTCATCTTCCGATG
ACATAGGGGAGGCCTCGCGTCTCTCCTGAGAAGCAGCAGGCTGATGGGCTGAGTCCTAGATTGTTTGAATCTG
CGCCATCTTCCAGCAGAATAAAAAGGTTCATGAAAAGACTGAAGTCGGAGGTCTGGCATCACTTCTCCCTGGCCC
CCATGGACGAGCCTCAAGGCCGAGTGTGGTACTGCGGCTGTGCCATCAGCCGGGGGAAGAAGGGTGATGTGGCA
CCAGCTGCCTGATGAGACATCTCTACCGGCGCCATCCAGAAGTTGTGGGAGCCAGAAGGGCTTCTGGGTGCAA
GTCTGGCAAACCTCTCCGTATGCCACTTTGGCCTCTGCAGAAAGTTCTCTTCCAAATTGACTGACTTGCCAACAG
TGGTCACAAAAACAATCAAGTTATGTTTCTGTTAATAGCAAAAAGACCTCGAAGCTGTGGAATCATTTTTCTA
TTTGCTCCGCAGACTCCACAAAGTCGTGTGCTTGCACTGTGGCCGGACCATCAGCCGGGGGAAGAAGCCGACTA
ACTTGGGTACCAGCTGTCTTCTGAGACATTTACAGCGGTTCCATAGCAACGTGCTGAAACTGAGGTCTCGGAGA
CGGCTCGGCCCTCCTCTCCGGACACCCGGGTGCCGCGGGCACAGAATTATCAGGCGCTTCTCTTTTGATGACA
CCAATGAGAAGTTTTACGATTCTCACCCAGTTGCCAAAAAATCACAAGTCTCATAGCTGAAATGATTGCACTTG
ACCTCCAGCCATATTCTTTTGTAGACAACGTTGGCTTTAACAGGCTGCTTGAATACTTGAAACCTCAGTACTCCC
TCCCCGCCCTTCTACTTCTCCAGGACAGCTATCCCAGGTATGTATGATAATGTGAAGCAGATAATTATGTCCC
ACCTTAAGGAAGCTGAGAGTGGTGTGATCCACTTACGCTCTGGAATATGATGAGTAACCAACCGTGTGAGTACC
TGACCTCAGCGCCCACTGGGTTTCTTCGAGTCGCCAGCCCGCGCGCTGTGACGACCACCACTGCTCGGCGC
TGTTGGACGTGTGCGAGGTGGACTGCGACTACAGTGGCAACAGCATTGAGAAGCAGCTGGAGTGTGGTGGGAAG
CGTGGGTGACCTCCACCGGCCTTCAAGTGGGCATCACCGTCACCGACAACGCCAGCATCGGGAAGACGCTGAACG
AGGGGGAGCACTCGAGCGTGCAGTGCTTCAGCCATACGGTGAACCTGATCGTCAGCGAGGCCATTAAGAGCCAGC
GGATGGTGCAGAACCTGCTGAGCCTCGCCCGAAGATCTGCGAGCGGGTGCACCGGTCGCCCAAGGCGAAGGAGA
AACTGGCCGAGCTGCAGAGGGAGTACGCGTGCCTCAGCATCACCTCATCCAGGACGTCCCGTCCAAGTGGAGCA
CTTCTTCCACATGCTCGAGCGGCTCATTGAGCAGAAAAAGGGCCATTAACGAGATGTCCGTGAGTGTAACCTCC
GAGAGCTGATCAGCTGCGACCACTGGGAGGTGATGAGTCCGTGTGCCGTGCGCTAAAGCCCTTCGAGGCTGCGA
GCCGGGAGATGAGCACGAGATGTCCACCCCTCAGCCAGGTATCCCATGGTACACATCCTCAACAGGAAGGTGG
AGATGCTCTTCGAGGAGACGATGGGCATCGACACCATGCTGCGCTCTCTGAAGGAGGCCATGGTGTGAGCCGCTGT
CTGCCACCTCCACGACCCGCGGTACGTCTTCGCCACGCTGCTGGATCCTCGCTACAAGGCCCTCCTGTTTACGG
AGGAGGAGGCGGAGCAGTACAAACAGGATTTAATCAGGGAACCTGAACTCATGAATTCTACCTCAGAGGACGTGG

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FIGURE 6108B

CTGCCTCCACAGGTGTGATGCTGGCTCCCCGTCGAAAGACTCTGCCGCAGAGGAGAACCTGTGGTCACTTGTGG
CCAAGGTGAAGAAGAAAGACCCAAGAGAAAAGCTGCCTGAAGCCATGGTGCTTGCGTATCTGGAGGAGGAGGTGC
TTGAACACAGCTGTGACCCGCTCACCTACTGGAACCTGAAGAAGGCGTCCTGGCCGGGGCTGTCCGCGCTGGCCG
TCAGATTTTTGGGCTGCCCCCAAGCATCGTCCCTTCAGAAAAGCTGTTCAACACACCCACTGAGAACGGTAGCC
TTGGCCAATCCAGGCTCATGATGGAACATTTTGA AAAA ACTTATCTTTTTGAAAGTGAATCTTCCCTTAATATACT
TTCAGTATTGAACTCACGACGGCACCCTAGGCCAGAGGCGTGGCTGCCCCAGCGTTAGCAGCCTGTACCAGGT
CTATGACCCGCTCTGCCCCAGGCTGTGTACGACATCAGACCAGGCACTCTCAGGGCCGCTCTCCAGCTCACCACA
GTGTCTCCACGTGCCCTTACCCCTTCTCCTTCAGGCCAAGTTTCGCGGGGTGTTTTATTAAAGACGTCCACTAGAAA
TAGCTTGTCCTGTCAACTATGAAATATGGTGACTAGATTTTAAATTCATAACCGTAAAGTTTTTAAAGTTTTGGG
TTAGTAATTTGTTTTACTAGAATGACAAAAGAAGATGTAAACCATTTTATTCTGTAGGCTTTTTACTCAATTATGT
ACAAACCACAAATCAGGTACTGTATTTTAGTGAAGCATTGCTTTAATTGCAACAGAATAGCTTTTGTGGCTATCA
AATGAAATCTGTAATAGGAGGTGGAGGGCAAGCCATCCTGACTGAGCAGTTTTTAACCGCAGGTTCTAAAGTGT
CCCGCGGAGTACAGATAATATTCTGGAAGGTAAC TGTTTACTACGACAGAGACGTGGCATTGTGAAACGAACTT
AGATGTTTCATGGAGCTTATTTTGAGAACTTTCCCATTTTCAGGTTTCTGCATTTCAGGCTTTACATGGTCAGTTAA
CTCAGAGATACCCAGCTGTTTATCATCAGCTCCTCTGAAATGTGATCCCTTTGTAAGTGTGCTCATCACTTCGC
CAGTGCGTTCAATGACACGCTGATGGCAGGTGGTCCCTGCTGAAACCCCCACGCCTCCGCTTCAGCATCTCCACG
CTCTGAAGCTGTCTTTCAAAATGTGTGCACTGACCCCTTGTTTGATCAAATTTGTGTAAAATTTTTTTAGAAGA
GATGGCTTATTAACAGGGAAGAAGCTTGTTATATTCCAGTTGTAAGAATAGCCTTAGTGTTTAGATTTTTTTATG
ATAGGGAAGATGCGGCCATCACTGGGATATTTTCAAATCCCAAGGACATCAGAGTGAAGTGTGAGTTGTCAGATG
ATTTTAAAAGTTATGTCTTCAGAGAAAAAAGATTCAATTTCTCATTTTAAACCAATTAAATATTCTGAGTGAGA
CTAATCACTCATTGCTTACGACCTTTTAGAAAAGTTGTTTTGTTGAAATACTGTACGTACGCTTAATCTAAATT
TGCATTGACTATGTTTTAGTGATTTATAAATGGTGAAGTCAAGTTTCTGAAATTAACTTCTTATTTGCAATTTT

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FIGURE 6109

CCATGTTGGCCAGGCTGGTCTGAGAGAGAACTCCTGACCTCGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGG
GATGACAGGCGTGCGCCACTGCACCCGGCCCGTGAAGGTCTTTTCTGAAGGGAGCTACCTTTGAGAAGTGCCTGT
TGGGACAGAACTCCCTGCTCTGGTCTGACCCCTCTGCACGCTAGGGTGGTCTGCACCTGTCGGGGAGGGGGCCAA
GGACACAGCACTGGGCTGGGGCAGGGCTCTGCGCTGGTGTGCTGCCATCCCAGTTCTGCCATTCCCCCAGCGC
ACCCCGCACCCGCCCCCTCCAGCTGATGCCCTGCTCCCTCTCTCTGCAGAACGGGCTCATGTGCGGGCTGATGCAG
ATGCTGCTGCTGAAGGTGTCTGCACACATCACCGAGCAGCTGGGCATGGCCCCAGGTGGCGAGTTTACGGGAGGCC
TTCAAGGAGGTGGGCACAGGGTGAGGTAGGGGGTGGCCACAGGGATGTTGGCTCACAGGGGTGGTCCGGGGTTCCC
AGTGCTCCCCAACACCCAGCCTCTGCTCCAGGCCAGCAAGGTGCCTTTCTGCAAGTTCCACCTGGGTGACCGACC
CATCCCCGTACCTTCAAGAGGGCCATCGCAGCGCTCTCCTTCTGGCAGAAGGTCAGGCTGGCTTGGGGCCTGTG
CTTCTGTGACACCCATCAGGTAGGGCTGCCCCGGGACCCCTGGCCGGCCTGCAGGGTGGTCTGTGGGAGGCTC
CAGGCCCTCCTGTGACGGTCCAAGCGCAGCCAATCCTCACTCAAGGCCTTCCCTGCCCTTTTCTTCCGCCACAAA
TCCCAAACAAACGTGCTGTGGTCCCTGCCCCGGTGTCCACAGTGCCAGCCCCACCCCCCAGCCCGTTGCCATCC
CTGCGGGGCTGCAGCCATCCCTCTCCACAGCAAGGATGACGTGGAACGCTGCAAGCAGAAGGACCTACTGGAGCA
GATGATGGCCGAGATGATTGGCGAGTTCCCAGACCTGCACCGCACCATCGTCTCGGAGCGCGACGTCTACCTAAC
CTACATGCTGCGCCAGGCCGCGCGGGCGCCTCGAGCTGCCTCGGGCCTCTGACGGTGACGGCCGCCCGCAGGCGTG
GGACCCCTGTGAGGCTGAGGCCGAGCAGGTACTGACCCCTGTCTTCCCCACAGCCGAGCCAGGAAGTGCG
TCCCCTCCGTGGTCTGTGGCGTCTGTGGGCATGGGCCACGTGCCTGGCATCGAGAAGAACTGGAGCACCGACCTCA
ACATCCAGGAGATCATGACCGTCCCCCGCCGTCCGTCTCCGGCAGAGTGTCTCGGTGGCCGTGAAGGCCGCT
TCTTCGGCCTGCTGGGCTACAGCCTGTACTGGATGGGCCGCCGACCGCGAGCCTGGTCTGTGCTGCCCGCCG
CGCAGTACTGCCTGCAGAGGGTGACCGAGGCCCGGCACAAGTAGGAGACTGCTCCCCGCCCCGCTCGGGCCCTGA
GGAGCCAGTGCCCCCGCGGCACCTTCTGGGTGCCAGGTGCATCCTAGCCCGCCGAGGCCCTGCCACCCCCATG
GGGGTCTGGGCCCGGCCTCGCCTGCCCTCCTGGGCCAGTCACCCCTCCCCCAGCCCAACCAATAAAGGATTATT
TAAGTGTCTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6110

MWLTGVVRGSQCSPTPSLCSRPARCLSSASTWVTDPSPSPSRGPSQRSPSGRRSGWLGACASCQTPSGRAAPGTL
AGLQGGLWEAPGPPVQVQAQPIILTQGLPCFFLPPQIPNKRAVVPARCPQCQPHPPSPLPIAGLQPSLSTARMTW
NAASRRTYWSR

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FIGURE 6111

GCTGGGCGACGGCGCCGCCATGTACCTGGGCGAGGTGTGCACGGCGACCGGCGAGCGCTGGGAGCTGCAGCTCAA
GGGCGCCGGGCCACGCCCTTCTCCAGACAGGCCGACGGTCGCAAGGTCTTACGGTCAAGCATCCGGGAGTTTCT
ATGCAGCGAAGCCATGTTCCACCTGGGAGTCCCCACCACACGGGCGGCGCCTGCGTCACGTCCGAGTCCACGGT
GGTGCGCGACGTGTTCTATGATGGTAATCCCAAATGAACAATGCACGGTTGTGTTGCGTGTAGCTTCCACTTT
CATAAGGTTTGGATCCTTTGAGATTTTAAAGTCTGCAGATGAGCACACAGGGCGTGCAGGCCCCAGCGTGGGGAG
GAACGACATTCGAGTGCAGCTGCTCGACTATGTCATCAGCTCCTTTTACCCCGAGATCCAGGCTGCTCATGCCAG
CGACAGCGTGCAGAGAAATGCTGCCTTCTTCCGGGAGGTGACGCGGGCGCACGGCGCGGATGGTGGCCGAGTGGCA
GTGTGTGGGCTTCTGCCACGGCGTGTCAACACCGACAACATGAGCATCCTGGGGCTCACCATCGACTACGGGCC
CTTTGGCTTCTTGGACAGGTACGACCCCGACCACGTGTGCAATGCCTCCGACAACACCGGCCGCTACGCGTACAG
CAAGCAGCCCGAGGTGTGCAGGTGGAACCTGCGGAAGCTGGCCGAGGCCCTGCAGCCGGAAGTGGCCCTGGAGCT
GGGGGAGGCCATCCTGGCCGAGGAGTTTGACGCCGAGTTCCAAAGGCACTACCTGCAGAAGATGCGCAGGAAGCT
GGGCCTCGTGCAGGTGGAGCTGGAGGAAGACGGGGCGCTGGTGTCCAAGCTCCTGGAGACCATGCATCTGACCGG
TGCCGACTTCAAAACACCTTCTACTTGCTGAGCTCCTTCCCAGTGGAGCTAGAGTCGCCAGGCCTGGCGGAATT
CCTGGCCAGGCTGATGGAGCAGTGTGCCTCCCTGGAGGAGCTGAGGCTGGCCTTCCGGCCCCAGATGGATCCCCG
GCAGCTATCCATGATGCTGATGCTGGCGCAGTCAAACCCGCAGCTGTTTCGCGCTTATGGGCACCCGGGCAGGCAT
CGCCAGGGAGCTGGAGCGTGTGGAGCAGCAGTCTCGGCTGGAGCAGCTGAGTGCGGCAGAGCTGCAGAGCAGGAA
CCAGGGCCACTGGGCTGACTGGCTACAGGCGTACAGAGCCCGGCTGGACAAGGACCTGGAAGGCGCTGGGGACGC
TGCCGCTTGGCAGGCTGAGCACGTGCGCGTGTGTCACGCCAACAACCCGAAGTACGTGCTGAGGAACTACATCGC
GCAGAATGCCATCGAGGCTGCCGAGCGCGGGGACTTCTCAGAGGTGCGGCGGGTGCTGAAACTACTGGAGACCC
TTACCACTGCGAGGCGGGGGCCGCCACAGACGCCGAGGCCACGGAAGCCGACGGGGCGGACGGCAGGCAGCGCTC
CTACAGCAGTAAGCCCCCGCTCTGGGCAGCAGAACTGTGCGTGACATTGATCTTCGTAAACGGCCTCGGCACGCTCC
ACACCCCTGGAGTCTCCCGAGGCCCCCATGTGCTGCTGAGTGGCCAAGATGATGCCAGGCTGCCCTATACACTGG
GGGATTCTGCCCTGGCCCATGCACACCCGTCTTTCCATGATGGCAGAGACATCCAGTCAGGACCTGACCCGTCTC
TGTCTGAGGCCGGCTCAGCAGTGCAGCCTGGTCCCTGGGGGCTGGACCCAGGCTCCTAAATAAACAGCAACTCC
CTCG

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FIGURE 6112

MYLGEVCTATGERWELQLKGAGPTPF SRQADGRKVLRSSIREFLCSEAMFHLGVPTTRAGACVTSESTVVRDVFY
DGNPKYEQCTVVL RVASTFIRFGSFEIFKSAD EHTGRAGPSVGRNDIRVQLLDYVISSFY PEIQA AHASDSVQRN
AAFFREVTRRTARMVAEWQCVGFCHGVLNTDNMSILGLTIDYGPF GFLDRYDPDHVCNASDNTGRYAYS KQPEVC
RWNLRKLAEALQPELPLELGEAILAE EFDAEFQRHYLQKMRRKLGLVQVELEEDGALVSKLLETMHLTGADFTNT
FYLLSSFPVELESPGLAEFLARLMEQCASLEELRLAFRPQMDPRQLSMMLMLAQSNPQLFALMGTRAGIARELER
VEQQSRLEQLSAAELQSRNQGHWADWLQAYRARLDKDL EGAGDAAAWQAEHVRVMHANNPKYVLRNYIAQNAIEA
AERGDFSEVRRVLKLETPYHCEAG AATDAEATEADGADGRQRSYSSKPPLWAAELCVT

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FIGURE 6113

GATTCTCCCAGCAACAAGCTGCTGTACGCCAAGGAGATCTCCACCTACAAGAAGATGGTGGAGGATTACTACAAG
GGGATCCGGCAGATGGTGCAGGTCAGCGACCAGGACATGAACACACACCTGGCAGAGATTTCCTGGCGCCCCCTC
CCTGCGGCTGCACCCACGGCCGTGCCCACAGCGCCCCCTCCCTGCGGCTGCACCCCTCGGCCGTGCCCACAGCGCC
CCCTCCCTGCGGCTCCATCCACGGCCGTGTCCACAGCGCCCCCTCCCTGCGGCTGCACCCACGGCCGTGCCCACA
GCGCCCCCTCCCTGCGGCTCCACCCACAGCCCTGCTCACAGCACCCGTCCCTGTGGGTCCATCCACAGCCGTGCG
TCACACAGGGAGACACTGAGATGGTTGGATGTGCACAACCTCTGCCTGCGCGCACACGGACTCCTTGAACACCCTC
GTGGCACTCCACCAGCTCTACCAATACACGCAGAAGTACTATGACGAGATCATCAATGCCTTGGAGGAGGATCCT
GCCGCCCAGAAGATGCAGCTGGCCTTCCGCCTGCAGCAGATTGCCGCTGCACTGGAGAACAAGTCAGGGTGGGCT
TCCTAG

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FIGURE 6114

GCCCTGCTCTAGCGGGCCGCTAGCGGACATGGCGGGCTCCCGGCTCCCGCGGCAGCTCTTCCTCCAGGGCGTGG
CGGCCGTCTTCATGTTTGCTTTGCTTTCCCTCTACACGCAAATCCAGGCCTGTATGGCCCCGAGGGCATCCTAC
CTGCAAGGAGGACGCTGCGGCCTCAGGGCAAGGGGCGCTGGCAGCAGCTGTGGGAGACCCCGACGCTGCTGTGGG
AAGCGCCGAGACTGGGGCTGGACACGGCCAGGGCCTGGAGCTGCTGAGCCTGCTGGGTGCACTAGTGGCCCTGG
GAGCCCTGCTGCTGAGCCCACTGCGCCACCCTGTCACTACTTGTGCTTTGGGCCGCTACCTGTCAGCCTGCC
AGGTGGGCCAGGTGTTCCCTTTATTTCCAGTGGGACTCCCTGCTGCTAGAGACTGGCTTCCTGGCCGTGCTGGTGG
CCCCGCTGAGGCCAGCCTCCCAACGCAAGGAGGCCCCCAGGGCAGGCAGGCAGGGGCCCTGCCCCACGAAGACC
TCCCTTTCTGGCTGGTGCGATGGCTGCTGTTCCGCCTCATGTTTCGCTCAGGCGTGGTCAAGCTGACCAGCCGCT
GCCCTGCGTGGTGGGGGCTCACTGCCCTCACCTACCACTACGAGACCCAGTGCCCTGCCACGCCCGCCGCTGGT
TCGCACACCACCTGCCGGTCTGGCTGCACAAGCTCAGCGTGGTGGCCACCTTCCTAATTGAGATCGCTGTGCCGC
CCCTGTTCTTCGCCCCCATTTCGACGCTGCGCTTGGCTGCTTTCTACTCGCAGGTGCTGCTGCAGGTCTGATTA
TCATCACCGGCAACTACAACCTTCTTCAACCTGATGACGCTGGTGTCTTACCACTGCGCTGCTGGACGACCAGCACC
TGGCTGCTGAGCCTGGCCACGGCAGCCGCAAGAAGACGGCCACCTCCTGGCCCAAGGCCCTGCTGGCCACCTGT
CGCTGCTGCTGGAAGTAGCCGTCTACGGGCTTCTGGCCTATGGCACTGTGCACTACTTTGGCCTGGAGGTTGACT
GGCAGCAGCGCACCATCCACTCCAGAACCCTTTACCTTCCACCAGTTTCTCAGTGGCTGAAGACACTGACGC
TGCCCACTGTGTGGCTGGGTGTGGCCTCCCTGGTCTGGGAGCTGCTGAGTGCCCTGTGGAGGTGGACCCAGGTGC
GGGGCTGGCTACGGAAGCTCAGTGTGTAGTCCAAGTGTCCCTTGTGGGCACTGCGACCGTGGCCTTGTTCCTGA
TTAGCCTGGTGCCGTACTCCTACGTGGAGCCCGGGACCCACGGGCGCCTCTGGACCGGGGCCACCGCCTGTTTG
GTGCCGTGGAGCACCTACAGCTGGCCAACCTCCTACGGCCTCTTCCGCCGATGACTGGGCTTGGTGGACGGCCTG
AGGTGGTGTGAGGGGAGTTACGACGGCCACCACTGGACGGAGATCGAGTTCATGTACAAGCCTGGGAACCTGA
GCCGGCCGCCCGGGTTGTGGTGGCCACCAGCCACGCCTGGACTGGCAGATGTGGTTTGCAGCCCTGGGGCCAC
ACACGCACAGCCCGTGGTTTACAAGCCTGGTCTTTCGCTGCTGCAAGGGCAAGGAGCCAGTGATCCGCCTTGTCC
AGAGCCAAGTGGCCAGGTATCCCTTCCACAAGCAGCCGCCACCTACGTCCGAGCCAGCGCTACAAGTACTGGT
TCTCCAGCCTGGGGAGCAGGGCCAGTGGTGGCGGCCAGTGGGTGGAGGAGTTCTTCCCATCCGTGTCCCTGG
GGGACCCACGCTGGAGACGCTGCTCAGGCAGTTTGGACTACAGGAGAAAAGCCACCTCGCACCCGACGCGCA
ACAGCACCCCTGGCCAGGCCCTCCACTGGACTCGCTCTCAGCTGTCTCCCTGGAGGCCCCCGCCCTGCTCTGGG
GGCTCCTCATGGCCGTGGGGGCTGTGAGATTTGTGCAAGCCCTGCTAGCACCTGTCTCTCCGGTCTCCCCGC
TGGCACCACTCAGCGGGGAGAAGCGCAGGCCAGCCTCCAGAAAGACTCCGGAGCTGCCTCCGAACAGGCCACCG
CAGCCCCCAACCCCTGCTCCAGTAGTTGAGGACCACCCGGCGAAAGAAGTAGCTGTGTTCTCCAGCTGCACGT
CCTGAGAGGGCCAGGTGCGCCGGGAGTGTCTGGCCTCCGGCAGGACAGGACCCAGCCACTGTGCCTTAGCTGACC
CTGCAGGGCCAGGCACAGGTGGGGGGCTGCCCTGGGGTTTGAGGGTGTGATTGAGGGCTCCAGGCCCCAC
CCCCAGCCAGCCATGCCCTCCCAGGACTCCCACTATTGCCTCTGTGATTGGCCAGGAGGAAAACACGACCA
AGCTCAAGACCCCTTCCCTGCCCTGGGCTGTGGGGTCTGAGTCTAGAGCCCCCAACCCTAGGCCCCGTGCCAGA
GGGGAAGAGGCTGACTCCAGGGGAAGAGGGGAAGCACTGTCATCTTCCACGTATCTTACACCAGCCATCCT
GCCCTTTAGATCTGGGCACCAATAAAGGCGTCTTTTGTGCTTG

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FIGURE 6115

MAGSRLPRQLFLQGVAAVFMFAFASLYTQIPGLYGPEGILPARRTLRPQGKGRWQQLWETPTLLWEAPRLGLDTA
QGLELLSLLGALVALGALLSPLRHPVIYLLLWAAAYLSACQVGQVFLYFQWDSLLEETGFLAVLVAPLRPASHRK
EAPQGRQAGALPHEDLPFWLVRWLLFRLMFASGVVKLTSRCPAWWGLTALTYHYETQCLPTPAAWFAHHLPVWLH
KLSVVATFLIEIAVPPLFFAPIRRLRLAAFYSQVLLQVLIITGNYNFFNLMTLVLTALLDDQHAAEPGHGSR
KKTATSWPKALLATLSLLELAVYGLLAYGTVHYFGLEVDWQORTIHSRTTTFHFQFSQWLKTLTLPTVWLGVAS
LVWELLSALWRWTQVRGWLRLKLSAVVQLSLVGTATVALFLISLVPYSYVEPGTHGRLWTGAHRLFGAVEHLQIAN
SYGLFRRMTGLGGRPEVVLEGSYDGHHWTEIEFMYKPGNLSRPPPVVVPHQPRLDWQMWFAALGPHTHSPWFTSL
VLRLQKGKEPVIRLVQSQVARYPFHKQPPTYVRAQRYKYWFSQPGEQGQWRRQWVEEFFPSVSLGDPTLETLLR
QFGLQEKSEPPRTSANSTLAQALHWTRSQLSPLEAPALLWGLLMAVGAVRFVQALLAPCSLRSSPLAPVSGEKRR
PASQKDSGAASEQATAAPNPCSSSSRTTRKK

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FIGURE 6116

AGCAAAATGGCGCCAGAACTAGTGGCGGGCTGAGGACGCCGTACCCCTCGGAAGGCAGCCCTGCGGTCCCTTTGC
CGCCCGTTCCCTCCCGGACATGGAGGACGTGGAGGCGCGCTTCGCCACCTCTTGAGCCCATCCGCGACCTCAC
CAAGAACTGGGAGGTGGACGTGGCGGCCAGCTGGGCGAGTATCTGGAGGAGCTGGATCAGATCTGCATTTCTTT
TGACGAAGGCAAGACCACAATGAACCTTCAATTGAGGCAGCGTTGTTGATCCAGGGCTCTGCCTGCGTCTACAGTAA
GAAGGTGGAATACCTCTACTACTCGTCTACCAGGCCCTTGATTTCACTCTCTGAAAGAGGCGGGCCAAGCAGCT
CTCTTCGGTGCAGGAGGACAGGGCCAATGGGGTTGCCAGCTCCGGGTCCCCCAGGAGGCAGAGAATGAGTTCCT
GTCGCTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAGAATGATCAGACGCCCAGTGTGAGTCTCA
TCATCCCCCTCCTGCCCATGGCCCTGGTGGCCCCCTGATGAAATGGAGAAGAACACAATCCCCTGTACAGCCGTC
AGGGTGAGGTCTTGCCAGCCGGAAGGATTTAGGATGAACACGTGCGTTCCCCACCCAGAGGGGCCCTTCATGT
TGGAGCCAGAGGGCATGTCCCCATGGAACCAGCGGGCGTTTCCCCATGCCAGGGACCCAGAAGGACACCGGGA
GGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGACAGGAGCCCTGTCCAGCACTCGGCTTCTCCAGGAGCCAG
GCCCCCTCTCCAGAAGGCCCGATGCCCTGGGTGGGGGCGAGGACGAGGATGCAGAGGAGGCAGTAGAGCTTCCTG
AGGCCTCGGCCCCCAAGGCCGCTCTGGAGCCCAAGGAGTCCAGGAGCCCGCAGCAGAGTGCTGCCCTGCCAGGA
GGTACATGCTGCGGGAGCGGGAGGGGGCCCCAGAGCCTGCATCCTGCGTGAAGGAGACTCCAGACCCCTGGCAGA
GCCTGGACCCCTTTGACTCCTTGGAGTCTAAGCCCTTCAAGAAAGGTAGGCCTTACTCTGTGCCCCCTGTGTGG
AGGAGGCTCTGGGACAGAAGCGCAAGAGGAAGGGCGCTGCCAAGCTGCAGGACTTCCACCAGTGGTACCTGGCTG
CCTATGCAGACCATGCCGACAGCAGGCGGCTTCGGCGAAAGGGTCCGTCTTTGCAGACATGGAGGTCTGTACT
GGACACACGTGAAGGAGCAGTTGGAACTCTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAGCAGTGGCTGCGGC
CTGCAGAGGAGGACCACCTGGAGGATTCCTTGAAGACCTGGGGGCAGCAGATGACTTTCTAGAGCCTGAGGAGT
ACATGGAGCCCAGGGAGCAGACCCAGGGAAGCCGCTGACCTTGACGCAGTGCCGATGTCCCTGAGCTACGAGG
AGCTGGTTTGAAGGAATGTGGAGCTCTTATCGCCACCTCCCAGAAGTTTGTCCAGGAGACAGAGCTGAGCCAGC
GCATCAGGGACTGGGAGGACACAGTGCAGCCTCTGCTCCAGGAGCAGGAGCAGCATGTGCCCTTTGACATCCACA
CCTATGGGGACCAGCTGGTCTCACGGTTCCCCCAGCTCAATGAGTGGTGTCCCTTTGCGGAGCTGGTGGCTGGCC
AGCCGGCCTTCGAGGTGTGTCTTCATGCTGGCCTCCCTGCAGCTGGCCAATGACTACACAGTGGAGATAACCC
AGCAGCCCGGGCTGGAGATGGCGTGGACACCATGTCCCTGAGACTGCTCACGCACCAGCGAGCGCACAAAGCGCT
TCCAGACCTACGCTGCCCCCTCCATGGCCCAGCCCTGAGTGGGGAGCACCGAGGCAGGGGTGGGGGAATGTGTAC
TGAGGAGCCGTGTGTCTGCTCCTGGCTGGCCCGGCTAATAAAGCAGTGTGCCATCTCATCTTCCCCCTAAAAA
CCCTTTTATGTACACCTGCGCAGAGAAGAGGGCTGCCCTGGCCTCCCTGGGCCGCTGGTACAGATCACACACAC
ACAGATTAAACGCAGCCCGTTTAAATGATGGGGCCAGACTGCAGTGGCTCAAGACAGGACACTGCGGAAAGCCGC
CATGTGCCCGCCGACACTGTCTGAGATCTGCTCAGCCGATCTGCTCCGGCCGTAGTAATCCGTGAAGAGGCCGTC
AGGGTTGAGCAGGTAGATGGCAATGGAGTGGTCCACGATGTAGTCTTGGTCTCATCTTGGGGCCTGCATTGTA
GTACACGCGGTAACGTGACTAGCCTGGGCAACCTGTTTGGTGGAGCCGCTCAGACCAACAGTCTTGGGTGGAA
GTCCTGGACGTAGCGGGCCATGGCTTCAACGTGCTCCGCTCGGGGTCCACAGTGATGAAGACAGGCTGCACTGG
AGGCAAACCAGGCTCTGCTTCCAGCTGCCGCACCACCTGCACCAGCTTCTCCAGCTCGTCTGGGCAGATGTCAGG
GCAGTGAGTGAAGCCAAAGTACATCAGCACCCACTGGCCCCGGAAGTCAGCCTTGACGCGAGCCCGGCCTCTGTG
ATCCAGCAGGTGGAAGTCGCCCTGGCCACAGCTGCCTGGCGCAGGGCTTCTGTTGCTTTTGTGCTGCAGCCT
CTCCTTCTCAGCCCTCAGGGCCAGCCAGGCCCCACCGAGTCCAGCCCCGAACAGGCCTGTGATCAGCAGCCGGGT
TCGAAGCCCAGGGCCCTGGGGCTGGCCCTGCCACCTGTCTCTGCAGGGCCCTGCCTTGACAAAAGCCAGGACCT
CAGATGCAGGGCCTGGCCTCCAGGGTCCAGGGAGGACCCGAGGCTTGAGCTGAGAGGCCTGTGCCAAGCTGT
GGGGCTCCGAGTCAGCAGCAGCATGGATCTGATGCTCCTGGAAACAAGCACAGGCGTCAGGAGCCAGAAGGGAAG
GCCCAGGACAGTGCCTGGGCTGCCCTGCGACTTGAGACCAGCCACCCATCTGAAGGACCCAGCCACGTTTCAAG
CTTAACAGGCATTTGAGCTGCTCACCTGAGCTCAGAACTCCACCTCCACCAACATCCACACCTGGGCAACCAC
ACCTGTCACTCCTGTCTCTACCTGGGATCACCAGCCTGTACCCGACCCCTGCCCTGCACCTGCACCTCAGCAAG
GTGAACCTCTTGTGACGGAAGCATTCCAAGTGCATGCCTTGCTGAACTAACCACGTTATCTATTTGCAATAA
ACCCATTTCTTAAAGG

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FIGURE 6117

MALVAPDEMEKNNNPLYSRQGEVLASRKDFRMNTCVPHPRGAFMLEPEGMSPMEPAGVSPMFGTQKDTGRTEEQP
MEVSVCRSPVPALGFSQEPGPSPEGPMPLGGGEDEDAEEAVELPEASAPKAALPEKESRSPQQSAALPRRYMLRE
REGAPEPASCVKETPDWPQSLDPFDSLESKPFKKGRPYSVPPCVEEALGQKRKRKGAAKLQDFHQWYLAAYADHA
DSRRLRRKGPSFADMEVLYWTHVKEQLETLRKLQRREVAEQWLRPAEEDHLEDLEDLGAADDLFLEPEEYMEPEG
ADPREAADLDAVPMSLSYEELVRRNVELFIATSQKFVQETELSQRIRDWEDTVQPLLQEQQEHVFPDIHTYGDQL
VSRFPQLNEWCPFAELVAGQPAFEVCRSMLASLQLANDYTVEITQQPGLEMAVDTMSLRLTHQRAHKRFQTYAA
PSMAQP

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FIGURE 6118

GCTTTCCACAGCGCGGGGGAACGGGAGGCCGCGAGGATGGTCAAGCTGACGGCGGAGCTGATCGAGCAGGCGGGCGC
AGTACACCAGCGCGGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTCCCGTCATTGAAAATCTAGGTG
CTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAACTGGATGGTTTTCTTTTGTGA
GAAGACTGAAAACGTTGTAGTGAACAAAACAGAATATGCCGTATAGGTGAGGGACTTGATCAGGCTCTGCCCTG
TCTGACAGAACTCATTCTCACCAATAATAGGCTCGTGGAAGTGGGTGATCTGGACCCTCTGGCATCTCTCAAATC
GCTGACTTACCTAAGTATCCTAAGAAATCCAGTAACCAATAAGAAGCATTACAGATTGTATGTGATTTATAAAGT
TCCGCAAATCAGAGTACTGGATTTCAGAAAGTGAAACTAAAGAGCGTCAGGAAGCAGAGAAAATGTTCAAGGGC
AAACGGGGTGACAGCTTGCAAAGGATATTGCCAGGAGAAAGCAAACTTTTAATCCAGGTGCTGGTTTGCCAACT
GACAAAAGAAAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATGCTATAGCAAATGCTTCAACTCTG
GCTGAAGTGGAGAGGCTGAAGGGGTGCTGCAGTCTGGTCAGATCCCTGGCAGAGAACGCAGATTGGGGCCCACT
GATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAGCAGTGAGGCAGATGTATAATAAT
AGGCCGCTCTGGAACAAGTCTTGCTTTTCAAACATAGTATAATAGCCTTGTTTGTGTTAGCAAAGTGGAATCTAT
CAGCATGGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGTAAATATAAGTTTTGAAATCTAAATGTCAATTTTC
TACAAATTATAAAAATAAACTCCACTCACTGTGCTACC

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FIGURE 6119

GTCTTAGCGGCTGCGCGGTGGCTGCTCCGTCCCTTTTCGGTCCAGGCGGCGGCAGGGCTGAGCCAGCGACGCCCTCC
ATTCACCTCTCCGCGCCCGTTCTCCGGCTGTCTCCCGTTCCGCTGCCCCGCCCTGCCACCATGACGGAACAGGCCA
TCTCCTTCGCCAAAGACTTCTTGGCCGGAGGCATCGCCGCCGCCATCTCCAAGACGGCCGTGGCTCCGATCGAGC
GGGTCAAGCTGCTGCTGCAAGGTCCAGCACGCCAGCAAGCAGATCGCCGCCGACAAGCAGTACAAGGGCATCGTGG
ACTGCATTGTCCGCATCCCCAAGGAGCAGGGCGTGTCTGCTCTTCTGGAGGGGCAACCTTGCCAACGTCAATTCGCT
ACTTCCCCACTCAAGCCCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCCTGGGGGGCGTGGACAAGC
ACACGCAGTTCTGGAGGTACTTTGCGGGCAACCTGGCCTCCGGCGGTGCGGCCGGCGCGACCTCCCTCTGCTTCG
TGTACCCGCTGGATTTTCGCCAGAACCCGCCTGGCAGCGGACGTGGGAAAGTCAGGCACAGAGCGCGAGTTCGAG
GCCTGGGAGACTGCCTGGTGAAGATCACCAAGTCCGACGGCATCCGGGGCCTGTACCAGGGCTTCAGTGTCTCCG
TGCAGGGCATCATCATCTACCGGGCGGCCTACTTCGGCGTGTACGATACGGCCAAGGGCATGCTCCCCGACCCCA
AGAACACGCACATCGTGGTGAGCTGGATGATCGCGCAGACCGTGACGGCCGTGGCCGGCGTGGTGTCTTACCCCT
TCGACACGGTGCGGCGGCGCATGATGATGCAGTCCGGGCGCAAAGGAGCTGACATCATGTACACGGGCACCGTCG
ACTGTTGGAGGAAGATCTTCAGAGATGAGGGGGGCAAGGCCTTCTTCAAGGGTGCGTGGTCCAACGTCTGCGGG
GCATGGGGGGCGCCTTCGTGCTGGTCTGTACGACGAGCTCAAGAAGGTGATCTAAGGGCCGCGGCCTCCTCCAC
ACACACACACACACCAGGGGAACCAAGAGAACCACGTAGAATCCTCAACCGTGCGGACCATCAACCTTCGAGAAA
TTCCAGTTGTCTTTTTCCAGCCGCATCCTGCCTGTAGATGGCCGGGGAAGGCTCTAGAAAAGGGGCGCATTGCG
ATCCAACCATCGGCAGCCGATTCCGTGTCTTGATCACGGGGTGGGAGGGAACCGTGGCGTCCCTGCGTGGGGCCC
ATGGGTGAGACACTCCAGTACTGAGACCTAGAGTCCAGATGCTTGTAGGAGCCAAGTCGTGTTCTAAGTATTTAT
TTAAAACAAAAGAATCACGTTTTCCATTTGTACTTCAGCGCTAGCCCCTGTTTTGCACAGCCGAGTACTGGCGA
GTATGTTCTATGTTGGGCCTCCTGCTGCAAAACAATAAACAGAGGACGCAGAGGTC

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FIGURE 6120

MTEQAISFAKDFLAGGIAAAISKTA VAPIERVKLLLQVQHASKQIAADKQYKGIVDCIVRIPKEQGVLSFWRGNL
ANVIRYFPTQALNFAFKDKYKQIFLGGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKSGT
EREFRLGDCLVKITKSDGIRGLYQGFSVSVQGI I IYRAAYFGVYDTAKGMLPDPKNTHIVVSWMIAQTVTAVAG
VVSYPFDTVRRRMMMQSGRKGADIMYTGTVDCWRKIFRDEGGKAFFKGAWSNVLRGMGGAFLVLVLYDELKKVI

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FIGURE 6121

ATGGTTCTCTTCGCCGCCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCCTGGACGTGGCG
GCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAGCTG
CTGAAAGTGGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACGGTC
AGCCCGACGTCACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCAGAC
GCCGTGAGAGAAGGAAGGAACCAGTACCTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTTACGGCCATCTAC
AGGTCCGAGGGCGAGCGGCTACAGTTTCATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTGCTG
ACCGCCTTTGACCTGTCAGTGTTCCTCACTTATGTGTGACCTTGCTGGTGGGGCTGGAGCTCTGGCTAAGGAATGC
ATGTCTCTGTACCCTGGATGTAAGATCACCGTTTTTGACATCCCAGAAGTGGTGTGGACGGCAAAGCAGCACTTC
TCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGACCTGCTCAATCCATAAGACGATTAATGAGTGCTAAT
GATGGCAAGCGCTCCAGAGGCTCCGGAAGCCACGGCTGGATTGGAGACAAGATGGGATCCTCAGAGGACCAGGCC
TATCGCCTCCTTAATGACTACGCCAACGGCTTCATGGTGTCCCAGGTGAAGAGATGCAGAGGGTCCAAGAGGATT
TCACAGAGTTCACAGAAACCAGCTCCTCAAGAGACATCAAGTCACCCAAGAATAGACAAGCAGGATGATGCACGC
AGATCTTCCAGATGCTTCCAGATCTTCCAGATGCTCCCAGAAGAGCTAGAGCAGAGGCAATGA

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FIGURE 6122

TCCAAGGTTCTCTTCGCCGCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCCCTGGACGTG
GCGGCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAG
CTGCTGAAAGTGGAGACGAGGGGAGGAAAAGCTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACG
GTCAGCCCCGACGTCACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCA
GACGCCGTGAGAGAAGGAAGGAACCAGTACCTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTTACGGCCATC
TACAGGTCCGAGGGCGAGCGGCTACAGTTCATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTG
CTGACCGCCTTTGACCTGTCAGTGTTCCCACTTATGTGTGACCTTGGTGGGACATGGATAAAGCTGGAAACCATC
ATTCTCAGCAAATATCGCAAGGACAGAAAACCAACACCGCGTGTTCTCACTCATAGGTGGGGCTGGAGCTCTG
GCTAAGGAATGCATGTCTCTGTACCCTGGATGTAAGATCACCGTTTTTGACATCCCAGAAGTGGTGTGGACGGCA
AAGCAGCACTTCTCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGGGATTTCTTCAAAGACCTCTTCCG
GAAGCTGATCTGTACATCCTGGCCAGGGTCCTCCATGACTGGGCAGACGGAAAAGTGCTCACACCTGCTGGAGAGG
ATCTACCACACTTGCAAGCCAGGTGGTGGCATTCTGGTAATTGAAAGCCTCCTGGATGAAGACAGGCGAGGTCTT
CTGCTCACGCAGCTCTACTCTCTGAACATGCTTGTGCAGACGGAAGGGCAGGAGAGGACCCCCACCCACTACCAC
ATGCTCCTCTCTTCTGCTGGCTTCAGAGACTTCCAGTTTAAGAAAACAGGAGCCATTTATGATGCCATTTTAGCC
AGGAAATAACTGTTTTCTTGTGACCTGGAATAACGTCAAAGCACACAAGACATAATAATAAAGACATGTACCTCC
A

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FIGURE 6123A

ATGCCCAAGCGCGCGCACTGGGGGGCCCTCTCCGTGGTGCTGATCCTGCTTTGGGGCCATCCGCGAGTGGCGCTG
GCCTGCCCCGATCCTTGTGCTGCTACGTCCCCAGCGAGGTCCACTGCACGTTCCGATCCCTGGCTTCCGTGCC
GCTGGCATTGCTAAACACGTGGAAAGAATCAATTTGGGGTTTAATAGCATACAGGCCCTGTCAGAAACCTCATT
GCAGGACTGACCAAGTTGGAGCTACTTATGATTACGGCAATGAGATCCCAAGCATCCCCGATGGAGCTTTAAGA
GACCTCAGCTCTCTTCAGGTTTTCAAGTTCAGCTACAACAAGCTGAGAGTGATCACAGGACAGACCCTCCAGGGT
CTCTCTAACTTAATGAGGCTGCACATTGACCACAACAAGATCGAGTTTATCCACCCTCAAGCTTTCAACGGCTTA
ACGTCTCTGAGGCTACTCCATTGGAAGGAAATCTCCTCCACCAGCTGCACCCAGCACCTTCTCCACGTTTACA
TTTTTGGATTATTTAGACTCTCCACCATAAGGCACCTCTACTTAGCAGAGAACATGGTTAGAACTCTTCTGCTG
AGCATGCTTCGGAACATGCCGCTTCTGGAGAAATCTTACTTGAGGGAAATCCGTGGACCTGCGATTGTGAGATG
AGATGGTTTTTGGAAATGGGATGCAAAATCCAGAGGAATTCTGAAGTGTAAGGACAAAGCTTATGAAGGCGGT
CAGTTGTGTGCAATGTGCTTCAGTCCAAAGAGTTGTACAAACATGAGATACACAAGCTGAAGGACATGACTTGT
CTGAAGCCTTCAATAGAGTCCCTCTGAGACAGAACAGGAGCAGGAGTATTGAGGAGGAGCAAGAACAGGAAGAG
GATGGTGGCAGCCAGCTCATCCTGGAGAAATCCAACTGCCCCAGTGGAGCATCTCTTTGAATATGACCGACGAG
CACGGGAACATGGTGAACCTGGTCTGTGACATCAAGAAACCAATGGATGTGTACAAGATTCACTTGAACCAAACG
GATCCTCCAGATATTGACATAAATGCAACAGTTGCCCTGGACTTTGAGTGTCCAATGACCCGAGAAAACCTATGAA
AAGCTATGGAATTTGATAGCATACTACAGTGAAGTTCCCGTGAAGCTACACAGAGAGCTCATGCTCAGCAAAGAC
CCCAGAGTCAGCTACCAGTACAGGCAGGATGCTGATGAGGAAGCTCTTTACTACACAGGTGTGAGAGCCCAGATT
CTTGCAAGAACAGAATGGGTCAATGCAGCCATCCATAGATATCCAGCTGAACCGACGTCAGAGTACGGCCAAGAAG
GTGCTACTTTCTACTACACCCAGTATTCTCAAACAATATCCACCAAAGATACAAGGCAGGCTCGGGGCAGAAGC
TGGGTAATGATTGAGCCTAGTGGAGCTGTGCAAGAGATCAGACTGTCTGGAAGGGGGTCCATGCCAGTTGAGC
TGCAACGTGAAAGCTTCTGAGAGTCCATCTATCTTCTGGGTGCTTCCAGATGGCTCCATCCTGAAAGCGCCCATG
GATGACCCAGACAGCAAGTTCTCCATTCTCAGCAGTGGCTGGCTGAGGATCAAGTCCATGGAGCCATCTGACTCA
GGCTTGTACCAGTGCATTGCTCAAGTGAGGGATGAAATGGACCGCATGGTATATAGGGTACTTGTGCAGTCTCCC
TCCACTCAGCCAGCCGAGAAAGACACAGTGACAATTGGCAAGAACCCAGGGGAGTCCGTGACATTGCCTTGCAAT
GCTTTAGCAATACCCGAAGCCCACCTTAGCTGGATTCTTCCAAACAGAAGGATAATTAATGATTGCTGCTAACACA
TCACATGTATACATGTTGCCAAATGGAACCTTTCCATCCCAAAGTCCAAGTCAGTGACAGTGGTTACTTACAGA
TGTGTGGCTGTCAACCAGCAAGGGGCAGACCAATTTACGGTGGGAATCACAGTGACCAAGAAAGGGTCTGGCTTG
CCATCCAAAGAGAGCAGCGCCAGGTGCAAAGGCTCTTCCAGAGTCAGAGAAGACATCGTGGAGGATGAAGGG
GGCTCGGGCATGGGAGATGAAGAGAACCTTCAAGGAGACTTCTGCATCCAAAGGACCAAGAGGTGTTCTCATAA
ACAAAGGATGATGCCATCAATGGAGACAAGAAAGCCAAAGAAAGGGAGAAGAAAGCTGAAACTCTGGAAGCATTG
GAAAAGAACCAGAGACCAATGTTGCAGAAGGTGCGAGAGTGTTTGAATCTAGACGAAGGATAAACATGGCAAAC
AAACAGATTAATCCGAGCGCTGGGCTGATATTTTAGCCAAAGTCCGTGGGAAAAATCTCCCTAAGGGCACAGAA
GTACCCCATTTGATTAATAAACACAAGTCCTCCATCCTTGAGTCTAGAAGTCACACCACCTTTTCTGCTATTTCT
CCCCCTCAGCATCTCCTGTGCAGACAGTAACCAAGTGCTGAAGAATCCTCAGCAGATGTACCTCTACTTGGTGAA
GAAGAGCACGTTTTGGGTACCATTTCTCAGCCAGCATGGGGCTAGAACACAACCACAATGGAGTTATTCTTGTT
GAACCTGAAGTAACAAGCACACCTCTGGAGGAAGTTGTTGATGACCTTCCGAGAAGACTGAGGAGATAACTTCC
ACTGAAGGAGACCTGAAGGGGACAGCAGCCCCTACACTTATATCTGAGCCTTATGAACCATCTCCTACTCTGCAC
ACATTAGACACAGTCTATGAAAAGCCCACCCATGAAGAGACGGCAACAGAGGGTTGGTCTGCAGCAGATGTTGGA
TCGTACACAGAGCCCACATCCAGTGAGTATGAGCCTCCATTGGATGCTGTCTCCTTGGCTGAGTCTGAGCCCATG
CAATACTTTGACCCAGATTTGGAGACTAAGTCACAACCAGATGAGGATAAGATGAAAGAAGACACCTTTGCACAC
CTTACTCCAACCCCCACCATCTGGGTTAATGACTCCAGTACATCACAGTTATTTGAGGATTCTACTATAGGGGAA
CCAGGTGTCCAGGCCAATCACATCTACAAGGACTGACAGACAACATCCACCTTGTGAAAAGTAGTCTAAGCACT
CAAGACACCTTACTGATTAAAAAGGGTATGAAAGAGATGTCTCAGACACTACAGGGAGGAAATATGCTAGAGGGA
GACCCACACACTCCAGAAGTTCTGAGAGTGAGGGCCAAGAGAGCAAATCCATCACTTTGCCTGACTCCACACTG
GGTATAATGAGCAGTATGTCTCCAGTTAAGAAGCCTGCGGAAACCACAGTTGGTACCCTCCTAGACAAAGACACC
ACAACAGCAACAACAACCAAGGCAAAAAGTTGCTCCGTATCCACCATGAGCACTACCCCTTCTCGAAGGAGA
CCCAACGGGAGAAGGAGATTACGCCCAACAATTCGCCACCAGGACAAAGCAACCCCAACCACTTTTGCC
CCATCAGAGACTTTTTCTACTCAACCAACTCAAGCACCTGACATTAAGATTCAAGTCAAGTGGAGAGTTCTCTG

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FIGURE 6123B

GTTCTACAGCTTGGGTGGATAACACAGTTAATACCCCCAAACAGTTGAAATGGAGAAGAATGCAGAACCCACA
TCCAAGGGAACACCACGGAGAAAACACGGGAAGAGGCCAAACAAACATCGATATACCCCTTCTACAGTGAGCTCA
AGAGCGTCCGGATCCAAGCCCAGCCCTTCTCCAGAAAATAAACATAGAAAACATTGTTACTCCAGTTCAGAACT
ATACTTTTGCCTAGAAGTGTCTCTGAAAAGTGGGGCCCTTATGATTCCCTTAGATTACATGACAACCACCAGA
AAAATATATTTCATCTTACCCTAAAGTCCAAGAGACACTTCCAGTCACATATAAAACCCACATCAGATGGAAAAGAA
ATTAAGGATGATGTTGCCACAAATGTTGACAAACATAAAAGTGACATTTTAGTCACTGGTGAATCAATTACTAAT
GCCATACCAACTTCTCGCTCCTTGGTCTCCACTATGGGAGAAATTAAGGAAGAATCCTCTCCTGTAGGCTTTCCA
GGAACCTCAACCTGGAATCCCTCAAGGACGGCCAGCCTGGGAGGCTACAGACAGGCATACCTGTTACCATTCT
GGGGAAAATCTTACAGACCCTCCCTTCTTAAAGAGCTTGGAGTGTGGATTTCACTTCCGAGTTTTTGTCTCT
TTGACAGTCTCCACACCATTTCACCAGGAAGAAGCTGGTTCTCCACAACCTCTCTCAAGCATAAAAGTGGAGGTG
GCTTCAAGTCAGGCAGAAACCACCACCCTTGATCAAGATCATCTTGAAACCACTGTGGCTATTCTCCTTTCTGAA
ACTAGACCACAGAATCACACCCTACTGCTGCCCGGATGAAGGAGCCAGCATCCTCGTCCCATCCACAATTCTC
ATGTCTTTGGGACAAACACCACCCTAAGCCAGCACTTCCAGTCCAAGAATATCTCAAGCATCTAGAGATTCC
AAGGAAAATGTTTTCTTGAATTATGTGGGGAATCCAGAAACAGAAGCAACCCAGTGAACAATGAAGGAACACAG
CATATGTCAGGGCCAAATGAATTATCAACACCCTCTTCCGACCAGGATGCATTTAACTTGTCTACAAAGCTGGAA
TTGAAAAGCAAGTATTTGGTAGTAGGAGTCTACCAGTGGGCCAGATAGCCAACGCCAGGATGGAAGAGTTCAT
GCTTCTCATCAACTAACCAGAGTCCCTGCCAAACCCATCCTACCAACGCAACAGTGAGGCTGCCTGAAATGTCC
ACACAAAGCGCTTCCAGATACTTTGTAACCTCCAGTCACCTCGTCACTGGACCAACAAACCGGAAATAACTACA
TATCCTTCTGGGGCTTTGCCAGAGAACAAACAGTTTACAACCTCAAGATTATCAAGTACAACAATTCCTCTCCCA
TTGCACATGTCAAACCCAGCATTCCTAGTAAGTTTACTGACCGAAGAACTGACCAATTCAATGGCTACTCCAAA
GTGTTTGGAAATAACAACATCCCTGAGGCAAGAAACCCAGTTGGAAAGCCTCCAGTCCAAGAATTCCTCATTAT
TCCAATGGAAGACTCCCTTTCTTTACCAACAAGACTCTTTCTTTCCACAGTTGGGAGTCACCCGGAGACCCAG
ATACCCACTTCTCCTGCCCCAGTAATGAGAGAGAGAAAAGTTATTCAGGTTCTTACAACAGGATACATTCCCAT
AGCACCTTCCATCTGGACTTTGGCCCTCCGGCACCTCCGTTGTTGCACACTCCGACAGACACGGGATCACCCCTCA
ACTAATTACAGAATATCCCTATGGTCTCTTCCACCAGAGTTCTATCTCCTTATAACATCTTCTGTCCAGTCC
TCAGGAAGCTTCCACCAGAGCAGCTCAAAGTTCTTTCAGGAGGACCTCTGCAATCCAAATCTTGGTCTCTTGGG
GAAAAGCCACAAATCCTCACCAAGTCCCCACAGACTGTGTCCGTACCGCTGAGACAGACACTGTGTTCCCTGT
GAGGCAACAGGAAAACCAAAGCTTTTGGTTACTTGGACAAAGGTTTCCACAGGAGCTCTTATGACTCCGAATACC
AGGATACAACGGTTTGGGTTCTCAAGAACGGTACCTTAGTGATACGGAAGGTTCAAGTACAAGATCGAGGCCAG
TATATGTGCACCGCAGCAACCTGCACGGCCTGGACAGGATGGTGGTCTTGTCTTCCGTACCCGTGCAGCAACCT
CAAATCCTAGCCTCCCACTACCAGGACGTCACTGTCTACCTGGGAGACACCATTGCAATGGAGTGTCTGGCCAAA
GGGACCCAGCCCCCAAAATTTCTTGGATCTTCCCTGACAGGAGGGTGTGGCAAACCTGTGTCCCCCGTGGAGGGC
CGCATCACCTGCACGAAAACCGGACCCTTTCCATCAAGGAGGCGTCTTCTCAGACAGAGGCGTCTATAAGTGC
GTGGCCAGCAATGCAGCCGGGGCGGACAGCCTGGCCATCCGCTGCACGTGGCGGCACTGCCCCCGTTATCCAC
CAGGAGAAGCTGGAGAACATCTCGCTGCCCCGGGGCTCAGCATTACATTCACTGCACTGCCAAGGCTGCGCCC
CTGCCCAGCGTGCCTGGGTGCTCGGGGACGGTACCCAGATCCGCCCTCGCAGTTCTCCACGGGAACCTGTGTT
GTTTTCCCCAACGGGACGCTCTACATCCGCAACCTCGCGCCCAAGGACAGCGGGCGCTATGAGTGCCTGGCCGCC
AACCTGGTAGGCTCCGCGCGCAGGACGGTGCAGCTGAACGTGCAGCGTGCAGCAGCCAACGCGCGCATCACGGGC
ACCTCCCCGCGGAGGACGGACGTGAGGTACGGAGGAACCTCAAGCTGGACTGCAGCGCTCGGGGGACCCCTGG
CCGCGCATCCTCTGGAGGCTGCCGTCCAAGAGGATGATCGACGCGCTCTTCAAGTTTGTAGCAGAATCAAGGTG
TTTGCCAATGGGACCCTGGTGGTGAATCAGTGACGGACAAAGATGCCGGAGATTACCTGTGCGTAGCTCGAAAT
AAGGTTGGTGATGACTACGTGGTGCTCAAAGTGATGTGGTGATGAAACCGGCCAAGATTGAACACAAGGAGGAG
AACGACCACAAAGTCTTCTACGGGGGTGACCTGAAAGTGACTGTGTGGCCACCGGGCTTCCAATCCCGAGATC
TCCTGGAGCCTCCAGACGGGAGTCTGGTGAACCTTTCATGCAGTCGGATGACAGCGGTGGACGCACCAAGCGC
TATGTCGTCTTCAACAATGGGACACTCTACTTTAACGAAGTGGGGATGAGGGAGGAAGGAGACTACACCTGCTTT
GCTGAAAATCAGGTGCGGAAGGACGAGATGAGAGTCAGAGTCAAGGTGGTGACAGCGCCCGCCACCATCCGGAAC
AAGACTTACTTGGCGGTTGAGGTGCCCTATGGAGACGTGGTCACTGTAGCCTGTGAGGCCAAAGGAGAACCCATG
CCCAAGGTGACTTGGTTGTCCCCAACCAACAAGGTGATCCCCACCTCCTCTGAGAAGTATCAGATATACCAAGAT

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FIGURE 6123C

GGCACTCTCCTTATTTCAGAAAAGCCAGCGTTCTGACAGCGGCAACTACACCTGCTTGGTCAGGAACAGCGCGGGA
GAGGATAGGAAGACGGTGTGGATTACGTCAACGTCCAGCCACCCAAGATCAACGGTAACCCCAACCCCATCACC
ACTGTGCGGGGAGATAGCAGCCGGGGGCGAGTCGGAAACTGATTGACTGCAAAGCTGAAGGCATCCCCACCCGAGG
GTGTTATGGGCTTTTCCCGAGGGTGTGGTTCTGCCAGCTCCATACTATGGAAACCGGATCACTGTCCATGGCAAC
GGTTCCCTGGACATCAGGAGTTTGGGAAGAGCGACTCCGTCCAGCTGGTATGCATGGCACGCAACGAGGGAGGG
GAGGCCAGGTTGATCCTGCAGCTCACTGTCTGGAGCCCATGGAGAAACCCATCTTCCACGACCCGATCAGCGAG
AAGATCACGGCCATGGCGGGCCACACCATCAGCCTCAACTGCTCTGCCGCGGGGACCCGACACCCAGCCTGGTG
TGGGTCTTCCCAATGGCACCAGATCTGCAGAGTGGACAGCAGCTGCAGCGCTTCTACCACAAGGCTGACGGCATG
CTACACATTAGCGGTCTCTCTCGGTGGACGCCGGGGCCTACCGCTGCGTGGCCCGCAATGCCGCTGGCCACACG
GAGAGGCTGGTCTCCCTGAAGGTGGGACTGAAGCCAGAAGCAAACAAGCAGTATCATAACCTGGTCAGCATCATC
AATGGTGAGACCCTGAAGCTCCCTGCACCCCTCCCGGGGCTGGGCAGGGACGTTTCTCTGGACGCTCCCCAAT
GGCATGCATCTGGAGGGCCCCAAACCTGGGACGCGTTTCTCTTCTGGACAATGGCACCCCTCACGGTTCGTGAG
GCCTCGGTGTTTGACAGGGGTACCTATGTATGCAGGATGGAGACGGAGTACGGCCCTTCGGTCACCAGCATCCCC
GTGATTGTGATCGCCTATCTCCCCGGATCACCAGCGAGCCCCACCCCGGTCTCTACACCCGGCCCGGGAACACC
GTGAACTGAACTGCATGGCTATGGGGATTCCCAAAGCTGACATCACGTGGGAGTTACCGGATAAGTCGCATCTG
AAGGCAGGGGTTGAGGCTCGTCTGTATGGAAACAGATTTCTTCAACCCAGGGATCACTGACCATCCAGCATGCC
ACACAGAGAGATGCCGGCTTCTACAAGTGCATGGCAAAAAACATTCTCGGCAGTGACTCCAAAACAACCTTACATC
CACGTCTTCTGAAATGTGGATTCCAGAATGATTGCTTAGGAACTGACAACAAAGCGGGGTTTGTAAGGGAAGCCA
GGTTGGGGAATAGGAGCTCTAAATAATGTGTCACAGTGCATGGTGGCCTCTGGTGGGTTTCAAGTTGAGGTTGA
TCTTGATCTACAATTGTTGGGAAAAGGAAGCAATGCAGACACGAGAAGGAGGGCTCAGCCTTGCTGAGACACTTT
CTTTTGTTGTTTACATCATGCCAGGGGCTTCATTCAGGGTGTCTGTGCTCTGACTGCAATTTTTCTTTTTTGGAA
ATGCCACTCGACTGCCCTTCATAAGCGTCCATAGGATATCTGAGGAACATTCATCAAAAATAAGCCATAGACATGA
ACAACACCTCACTACCCCATGAAGACGCATCACCTAGTTAACCTGCTGCAGTTTTTACATGATAGACTTTGTTT
CAGATTGACAAGTCATCTTTCAGTTATTTCTCTGTCACTTCAAACTCCAGCTTGCCCAATAAGGATTTAGAAC
CAGAGTGACTGATATATATATATATTTTAATTCAGAGTTACATACATACAGCTACCATTTTATATGAAAAAGAA
AAACATTTCTTCTGGAACCTCACTTTTATATAATGTTTTATATATATATTTTTTCTTTCAAATCAGACGATGA
GACTAGAAGGAGAAATACTTTCTGTCTTATTAATAATTAATAAATTATTGGTCTTTACAAGACTTGGATACATTAC
AGCAGACATGGAAATATAATTTAAAAAATTTCTCTCCAACCTCCTTCAAATTCAGTCACCAGTGTATATTACC
TTCTCCAGGAACCCCTCCAGTGGGGAAGGCTGCGATATTAGATTTCCCTTGATGCAAAGTTTTTGTGAAAGCTGT
GCTCAGAGGAGGTGAGAGGAGAGGAAGGAGAAAACTGCATCATAACTTTACAGAATTGAATCTAGAGTCTTCCCC
GAAAAGCCCAGAACTTCTCTGCAGTATCTGGCTTGTCCATCTGGTCTAAGGTGGCTGCTTCTTCCCCAGCCATG
AGTCAGTTTTGTGCCATGAATAATACACGACCTGTTATTTCCATGACTGCTTTACTGTATTTTTAAGGTCAATAT
ACTGTACATTTGATAATAAATAATATTCTCCC

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FIGURE 6124

GGCACGAGGGGAGGCCGGGGCGGGGCGGGCGCAGCCGGCGCTGAGCTTGACAGGGCCGCTCCCCCTACCCGCCCC
TTCGAGTCCCCGGGCTTCGCCCCACCCGGCCCGTGGGGGAGTATCTGTCTGCGCCTTCGCCACGCCCTGCAC
TCCGGGACCGTCCCTGCGCGCTCTGGGCGCACCATGCCCCGCGGGGCTGCGCTGGCGCTGCTGCTCTTCGGCCTG
CTGGGTGTTCTGGTCGCCGCCCGGATGGTGGTTTCGATTTATCCGATGCCCTTCCTGACAATGAAAACAAGAAA
CCCACTGCAATCCCCAAGAAACCCAGTGCTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGAAAT
GACGACCCACGACCACCGAACCACCCAAACCGATGCCAAATCCAAACCCCAACCACCCTAGTTCCTCCGGTAGC
TTTTAGATGCTGACCTTGCGGATGGCGTTTCAGGTGGAGAAGGAAAAGGAGGCAGTGATGGTGGAGGCAGCCAC
AGGAAAGAAGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCCGGGATTGTGGGGGCTGTGCTGGTCGCCGTGGCT
GGAGCCATCTCTAGCTTCATTGCTTACCAGAAAAAGAGCTATGCTTCAAAGAAAATGCAGAACAAGGGGAGGTG
GACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTGAGCGTACTCTTTTAGAGAAATAGAGATTGTC
GGCAGAAACAGCCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAAGGACACCTGCCTG
AGAGCAGAGATGGAGGCCCTTCTGTTACGGCGGATTCTTTGTTTTAATCTTGCGATGTGCTTTGCTTGTGCTGG
GCGGATGATGTTTACTAACGATGAATTTTACATCCAAAGGGGGATAGGCACCTGGACCCCCATTCTCCAAGGCCC
GGGGGGGCGGTTTCCCATGGGATGTGAAAGGCTGGCCATTATTAAGTCCCTGTAACTCAAATGTCAACCCACCG
AGGCACCCCCCGTCCCCCAGAATCTTGGCTGTTTACAAATCACGTGTCCATCGAGCACGTCTGAAACCCCTGGT
AGCCCCGACTTCTTTTAAATTAATAAGGTAAGCCCTTCAATTTGTTTCTTCAATATTTCTTTTCAATTTGTAGGG
ATATTTGTTTTTCATATCAGACTAATAAAAAAGAAATTAGAAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6125

MARGAALALLLFGLLGVLVAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDAVVDGENDDPRPPNPPKP
MPNPNPNHPSSSGSFSDADLADGVSGGEGKGGSDGGGSHRKEGEEADAPGVIPGIVGAVVVAVAGAISSFIAYQK
KKLCFKENAEQGEVDMESHNRNANAEPVQRTLLEK

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FIGURE 6126

CGGGGCGGGCGGGCGGGCGGTGAAGTCACTGCTGCTCTGGGTTTCGGGTTGGCGACTGAAGGCGGTACCGGCCTCCC
GGAACAGCCCCGGGGGAGGGCTTAGGTGCAGAAAGGCGAGGCTGGCCGCGGCCGGTTTGGTCTGGGGACCACGGGCT
GGAGCAGGTGGAAATTTAAATTTGTTTACAGTCAACACTGTTTCCAGCCATGGGTTTGTCTCCATCTGCTCCTGC
TGTTGCAGTTCAGGCCTCAAATGCTTCAGCGTCCCCACCTTCAGGATGCCCCGATGCATGAAGGGAAAATGAAAGG
CTGTCCAGTGAATACAGAGCCATCTGGCCCAACCTGTGAGAAGAAAACATACTCTGTGCCTGCCACCAGGAACG
CGCCTATGAGTACGTGGAGTGTCCCATTAGGGGCACTGCGGCTGAGAATAAGGAGAACCTAGATCCTTCAAATCT
GATGCCACCACCAAATCAAACACCAGCTCCAGATCAGCCATTTGCATTGTCTACTGTGAGAGAAGAGTCATCCAT
TCCGAGAGCAGATTGAGAGAAAAGTGGGTTTACCCTTCTGAGCAGATGTTCTGGAATGCAATGTTAAAGAAAGG
GTGGAAGTGGGAAGGATGAGGATATCAGTCAGAAGGATATGTATAATATCATTAGAATTCACAATCAGAATAACGA
GCAGGCTTGGGAAGGAGATTTTGAAGTGGGAAGCCCTTCATGCTGCAGAGTGTCTTGTGGTCCATCATTGATCCG
GTTTGGAGGGAAAGCAAAAGAGTATTCACCAAGGGCACGAATTCGTTTCTGGATGGGGTATGAGTTGCCTTTTGA
TAGGCACGATTGGATCATAAACCGTTGCGGGACAGAAGTTAGATATGTGATTGATTATTATGATGGTGGTGAAGT
CAACAAGGACTACCAGTTCACCATCCTGGACGTCCGTCCTGCCTTAGATTCACTTTCGGCAGTATGGGACAGAAT
GAAAGTCGCTTGGTGGCGTTGGACCTCGTTAAAGCACTGTTTCAGATGGAAAAATATAAACTATTTTTTTCTGAGC
GATACATTAACTATTTTCCCCAGAAAAAAAAAAAAA

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FIGURE 6127

MGLSPSAPAVAVQASNASASPPSGCPMHEGKMKGCPVNTEPSGPTCEKKTYSVPAHQERAYEYVECPIRGTAAEN
KENLDPSNLMPPPNOTPAPDQPFALSTVREESSIPRADSEKKWVYPSEQMFWNAMLKKGWKWKDEDISQKDMYNI
IRIHNQNEQAWKEILKWEALHAAECPCGPSLIRFGGKAKEYSPRARIRSWMGYELPFDRHDWIINRCGTEVRYV
IDYYDGGEVNKDYQFTILDVRPALDSLAVWDRMKVAWWRWTS

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FIGURE 6128

GAGATCTGATGGTTTTATAAAGAGGAGTTCCCTGCACAAGCTCCCTCTCTTGCCTGCCACCATGTAAGAAGTCC
CTTTGGTCTTCCTTTGTCTTCTGCCGTGATTGTGAGGCCTCCCCAGCCATGTGGAACCTATAAAATAATAAGATG
GCTGATCCTGCAAAGAGGCGCGGTGACATCAACAGTGACTCAGTCTCTATGATGGTATTAGTAACTGGCAGCTGA
CTCTCCTATTTATCATCAAGTTATGTTCCAAATAAGACTTTCAAGTCTGAGAAAAATGACAAATCCCTTCCAGGC
ATGGTTCAAGTTAAAGCTGAAACTGTGTCTTCGTTTCAGCTCAAGAGAGGTTTTGATTGTGTCGTGGCTTTTCCT
TGTGTATTGGTTGAGGAAGTGTGCCTTGGAGGGGCGGGGAGTCTTGAGAATGGGTCAACTGATGGAGGGGGAGTG
GAAGACATTGGTTGCCCAAGAAAATATGTCAACATCTGTCCATCACTGCAACTCCGGCCTGATTATCATTTTTTC
TGCTTCTGTAAGCACCAATGAGACAATGCCACTGAACCACATTCTTTGTTGCCTGCAGTATTTCCCACCACTGCG
CCACCTCTGATATGCTAATGAGGAAGCCCAGGGTTTTGTGTGGCTGAAAAGCCTTTTCAGGCACAATCAGTGGGTC
AACAATCTCAACTCTGTACAGCGGCTCAGCCTGCTCTGTGAGAGGCTCCTCTTTTCGGAGGGGTCCTTCCTCACAC
CTTTTCTGTGAGTGCGTCTGTGCTTAAGGAAGGGCAATTAACCATCTGGCTGCTTGTCCCCTGGAGAAATTGACA
GAACATCAAACAGAATAAACTCATACCTTGAAAAGTGCCAAGTGGCACATGACTGTCCGGTTCACTGTGGGGA

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FIGURE 6129

MFQIRLSSLRKMTNPFQAWFKLKLKLCIRFSSREVLIVSWLFLVYWLRNCALEGRGVLRMGQLMEGEWKTLVAQE
NMSTSVHHCNSGLIIIFSASVSTNETMPLNHILCCLQYFPPLRHL

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FIGURE 6130

CGGACATCTCCCTGGGAGTCGCGCAGAGTGGAGTCAAAGGCAACCAGTGCTCGCTGCGGTCTCTGGGGATCGGGA
CCGCGGCGGGCGGCCCGGAGCGGGATGTTCCGGGGCTTGAGCAGTTGGTTGGGCTTGACAGCAGCCGGTGGCAGGC
GGTGGGCAGCCCAATGGAGATGCTCCACCCGAGCAGCCGTCCGAGACGGTGGCTGAGTCTGCGGAGGAGGAGCTG
CAGCAAGCGGGAGACCAGGAGCTCCTCCACCAGGCCAAAGACTTCGGCAACTATTTATTTAACTTTGCATCTGCT
GCCACAAAAAGATAACTGAATCAGTTGCTGAAACAGCACAAACAATAAAGAAATCCGTAGAAGAAGGAAAAATA
GATGGCATCATTGACAAGACAATTATAGGAGATTTTCAGAAGGAACAGAAAAAATTTGTTGAAGAGCAACATACA
AAGAAGTCAGAAGCAGCTGTGCCCCCATGGGTTGACACTAACGATGAAGAAACAATTCAACAACAAATTTTGGCC
TTATCAGCTGACAAGAGGAATTTCTTCGTGACCCTCCGGCTGGCGTGCAATTTAATTTGCACTTTGATCAGATG
TACCCCGTGGCCCTGGTCATGCTCCAGGAGGATGAGCTGCTAAGCAAGATGAGATTTGCCCTCGTTCTAACTT
GTGAAGGAAGAAGTGTCTGGAGGAACTACTTTTACCGCTCTCCCTGATTAAGCAGTCAGCCAGCTCACGGCC
CTGGCTGCCCCAACAGCAGGCCCGCAGGGAAGGAGGAGAAGAGCAATGGCAGAGAGCAAGATTTGCCGCTGGCAGAG
GCAGTACGGCCCCAAACGCCACCCGTTGTAATCAAATCTCAGCTTAAACTCAAGAGGATGAGGAAGAAATTTCT
ACTAGCCCAGGTGTTTCTGAGTTTGTGTCAGTGATGCCTTCGATGCCTGTAACCTAAATCAGGAAGATCTAAGGAAA
GAAATGGAGCAACTAGTGCTTGACAAAAAGCAAGAGGAGACAGCCGTACTGGAAGAGGATTCTGCAGATTGGGAA
AAAGAACTGCAGCAGGAACCTCAAGAATATGAAGTGGTGACAGAATCTGAAAAACGAGATGAAACTGGGATAAG
GAAATAGAGAAAATGCTTCAAGAGGAAAAATTAGCTGTTCCTGAAATAGAAGAATAATCCTTAACAGTCTGCAAC
TGACATTAAATTCTAGATGTTGACAATTACTGAATCAGAAGGCATGAAAGAGTATAATTTTATGAAATTCAAAT
TATTCTTTTTTCAAGTTGAACTTGCCTCTTCTACTTTAAAAAAGTATATAGAACAGTTACTTCTAATAATCAGA
AAGAGATGTTTTATAGAACATTTCTTTAATATAAAGTTAGAGATGTCTTCATAGGCAGTATGGCTATCTTTGCCA
CAGAAACATAAGTAAAAATTTAGAGTTCTGTTTTCCATGAGGTCAAAAATATAATTTATTCTCAGTCATGGTTT
TCTAAATATCTGTACTCCACATTCCATTTTAATTGATATGAGGGTGTTAAAGTACCTACTTAATGGGTTGATTAC
TATCAAAATGACCAAATTATACCAAAGAACTTAAGAGGAAGCACTTTCAGAACTATTCACTTGCCAGGTATTTTC
TAAATTTCCACCTGAAAGCCAAAAGATAAAATAAATAAGTTGATTTTAATGATATAAGCATCACACAATTTTACA
TTAAGAAATACTGTGCAGGCCATGCGTGGTGGCTCAGGCCTGTAATCCAGCACTTTGGGAGGCCGAGGTGGGCA
GATCACCGGAGGTCAGGAGTTCGAGACCAGCCTTGCCAACATAGTGAACCCTGTCTCTACTAAAAATACAAAAA
TTAGCCGGGCATGGTGGCAGGCACCTGTAATCCCAGCTACTAGGGAGGCTTTTGAACCCAGGAGGCAGAGGTTGC
AGCGAGCTGAGATCGCGCCACTGCACTCCAGCCTGGGTGATAGAGTGAGATTTCAGTCTC

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FIGURE 6131

ATGGAGAAAAACAAAACAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGGAGGAACAGGAATATGTGGTGGAAAAA
GTTCTCTACCGTCGATTGCCCCGCCCCCATATCCCTCCTTCTGCCAACTTTATCACTTAAGACAGACTGCCTG
GGTCACCCTGTTTATGACAATAGAAGAATAAGGAAAGAACACTCTTCCCCTGCTCAAATCCTCCAATGTACCTGC
CGTACCCACGGECATGACAGACGGCACTGCTCGTTCCCATGCTCTGCTGCAAAGGTGGGCCTGGCAGCCTTGTGT
GGGCACCATGACCCACCTCACACCTGGCGTCACCTGAGTGGGAGAAAGGAGAGCCAACCCAAGGAGAAGAAAGAA
GGGTCGGAAGAGCCCGAGGCTTTGTTTCAGGTTTGGAGCCGGAACCCAGATTATTGGAGCTACAGACCTCCAGTG
GGAGAGCTCATGTTTCCTGATGAAAGGGAAAAATTTTGATGAGGCTGACCTCGTCCCTGCCAAGGAAGTCAATGTC
AAATGCCCACGGGTTGTCATATCCTTCTATGAGGAAAGGCTGACGTGGCATTCTTACCCCAAAGAGGATGATGAC
AAGAATTAA

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FIGURE 6132

TGTTTGAAGATACTGTGGAGGAGCGTGTCATCAATGAAGAATATAAAAATCTGGAAGAAGAATACACCGTTTCTAT
ATGACCTGGTTATGACCCATGCTCTTCAGTGGCCAGTCTTACCGTTTCAGTGGCTTCTCTGAAGTGACTAAACCTG
AAGGAAAAGATTATGCCCTTCATTGGCTAGTGCTGGGGACTCATACGTCTGATGAGCAGAATCATCTGGTGGTTG
CTCGAGTACATATTCCCAATGATGATGCACAGTTTGATGCTTCCCATTTGTGACAGTGACAAGGGTGAATTTGGTG
GCTTTGGTTCTGTAACAGGAAAAATTGAATGTGAAATTAATAATCAATCACGAAGGAGAAGTAAACCGTGCTCGTT
ACATGCCGCAGAATCCTCACATCATTGCTACAAAAACACCATCTTCTGATGTGTTGGTTTTTACTATACAAAAC
ACCCTGCTAAACCAGACCCCAAGTGGAGAAATGTAATCCTGATCTCAGATTAAAGAGGTCACCAGAAGGAAGGCTATG
GTCTCTCCTGGAATTCAAATTTGAGTGGACATCTCCTAAGTGCATCTGATGACCATACTGTTTGTCTGTGGGATA
TAAACGCAGGACCAAAAGAAGGCAAAATTGTGGATGCTAAAGCCATCTTTACTGGCCACTCAGCTGTTGTAGAGG
ATGTGGCCTGGCACCTGCTGCACGAGTCATTGTTTGGATCTGTTGCTGATGATCAGAACTTATGATATGGGACA
CCAGGTCCAATACCACCTCCAAGCCGAGTCACTTGGTGGATGCGCACACTGCCGAAGTCAACTGCCTCTCATTCA
ATCCCTACAGCGAATTTATTCTAGCCACCGGTCTGCGGATAAGACCGTAGCTTTTATGGGATCTGCGTAACTTAAA
ATTAATACTCCATACCTTCGAATCTCATAAAGATGAAATTTTCCAGGTCCACTGGTCTCCACATAATGAACTAT
TCTGGCTTCAAGTGGTACTGACCGCCGCTGAATGTGTGGGATTTAAGTAAAATTGGGGAAGAACAATCAGCAGA
AGATGCAGAAGATGGGCCTCCAGAACTCCTGTTTATTTCATGGAGGACACACTGCTAAGATTTTCAATTTTAGCTG
GAACCCCAATGAGCCTTGGGTCATTGCTCAGTGTCTGAGGATAACATCATGCAGATATGGCAAATGGCTGAAAA
TATTTACAATGATGAAGAGTCAGATGTCACGACATCCGAAGTGGAGGGACAAGGATCTTAAACCCAAAGTACGAG
AAATGTTTCTGTTGAATGTAATGCTACATGAATGCTTGATTTATCAAGCGCCAAAAGGCATTGTATAGTAGGAA
ATGTAAGTGGGGTGGCTTATGGCTTCTTTATCCTCTGATTCTAGCACTTTCAAGTGAGCTGTTGCGTACTGTATC
ATATTGTAGCTATTAGGGAAGAGAAGAATGTTGCTTAAGAAAGAACATCACCATTGATTTTAAATACAAGTAGCA
GGGTATTGCCTTTGATTCAACTGTTTAAAGTCCTCATTTTCTCAAATAAGTGCTTGCTGTTCCCAATATGCAA
GAATAACTTTTACACTTTTTCCTTCCAACACTTCTTGATTGGCTTTGCAGAAATAAAGTTTTTAAAT

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FIGURE 6133

MTHALQWPSLTVQWLPEVTKPEGKDYALHWLVLGTHTSDEQNHLVVARVHIPNDDAQFDASHCDSDKGEFGGFGS
VTGKIECEIKINHEGEVNRARYMPQNPHEIATKTPSSDVLVFDYTKHPAKPDPSGECNPDLRLRGHQKEGYGLSW
NSNLSGHLLSASDDHTVCLWDINAGPKEGKIVDAKAIFTGHSVVEDVAWHLHESLFGSVADDQKLMIWDTRSN
TTSKPSHLVDAHTAEVNCLSFNPYSEFILATGLRIRP

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FIGURE 6134

ATCACTGGTCTCGCGTGCGCGTGACCAGGCCCGGTTTCCGGTGCCAGGACCTTTCCGAAGCGTCGAGTGGCCTAA
CGGTACACAGCTGTGCGCCATCGGAGAGGCAGGACTACTGCGAGCAGTTTTACCGCGACCTCCGGAGGCCGGCGTG
ACAGGCTCTGTCACTAAATAGGAACCGAATATTGTATCTGACGCATCCTGTAATACTGAAGAGCAACTGAAGAC
AGTTGATGATGTCTTTATTCATTGCCAGGTTATATATGATGCTCTGCAAAACCTGGATAAGAAGATTGATGTGAT
TCGTAGAAAGGTTTCAAAAATCCAACGTTTCCATGCGAGATCCCTGTGGACAAATCATAAGCGATATGGATATAA
AAAGCATTCTTACCGGCTTGTTAAAAAGCTTAAACTCCAGAAAATGAAGAAAAATGAGGTTTACGAGACATTCTC
CTACCCCTGAAAGTTACAGCCCCACTTTACCAGTGTCAAGGCGTGAGAATAATTCCCCGAGCAACCTTCCAAGGCC
ATCCTTTTGCATGGAAGAATACCAGCGAGCTGAGCTGGAGGAGGACCCGATCCTCAGCCGCACTCCGAGTCCAGT
GCATCCCTCAGATTTCTCTGAGCATAATTGTGAGCCGTATTATGCATCTGATGGTGCAACGTATGGTCTTCTTTC
AGGGCTCTGCCTTGGCAACCCTCGGGCTGACAGCATCCACAACACTTACTCAACTGACCATGCTTCTGCAGCACC
ACCTTCAGTTACAAGGTCACAGTTGAAAATGACGGTTACATAGAGGAAGGAAGCATCACTAAGCACCTTCAAC
CTGGTCGGTGGAAGCAGTGGTCTTATTTCTAAAACAAACAGATCCTCTTGCAATTATGCCCTCTTGTCGACCTCTT
CAGAAGCCATGAAATTGACGGGAAGGCTCTGCTCCTACTCACGAGTGACGTGTTGCTGAAGCACTTGGGGGTGAA
GCTGGGAACGGCTGTGAAGCTATGCTACTACATTGACCGACTTAAACAAGGAAAAATGCTTTGAAAAATGAAGAAAA
TCCTTGTGCAAATTTAGATTGGGCCAATCTTAGAGGCACCAATGCCCTTCTTAGTGTGGAATCATTTTTCTGCCC
TTTAGTCGTTTTTGTGTTGTAGAAAGTATCTCTCAAAATATATTATAGCTAGAATTGTAGAACTATGTTATAGTC
CAGTCTACTTCTTTAAAAACCATTTAAACTGCTAGATAGTATTAGAATAGTCCAATAGAAAAATTCATTCTTTATA
GGTCTTTAAAAATTACTTTTATTATATTGTTTACAAATATATTTTCATGCAAGAAACAGAAAAAACCCT
TTGATTCTGGTTCATCTCGATACAGAGAACCAAAACAGCTAAGAGAGGTATTATCAGGGTTGACAACCTCCTATGA
TTGAATCTATGGGAATTATTCCTCAGAAGAGAATTTAAAGGTGTACCCATATATATCTCTTCTGGAGTATTTTA
TCTGTCTGATGTTGCAGTATTCTACAAGTTTCCAGAAAGAGAATAGCCATATAAATTATTTCCCTTCTGCTATT
ATTTCTCTATATGTTTTATTATTAGATTTAGAGTAAAAAATAAGCATATAAACTTTTATTATGTGCTCTTAAC
AGTTTTAAGATAAACTATAGGATAGATAGAATGGTTATTTTATGCAAGAAATATTGTACCGCAAGGGTGGTTGG
ATGAAGTCTGACTACTTTTTTTCAAACAACTATTATATTTAAACTGTTCATATTTTGGCTAAGTTTGGACCTATA
ACTACACTTTCATTGTTTGCATCTCTCTATGAAGATACGTCTGTCCAACTTTTAAAAGGCATAACTGTATTTTA
TGTGTTTATTCTTTATATAGATAGTATTTTATATTTTATTCTCACC CGAAGTATTCACACAATCTTTTTAAAAAA
AATTTGAAATGGCATTTTGTATTGCCACAGAGGTAGGATGAGCCATATATTAGTGAATGTTTTATTTTGTAAAA
TATAAATGGATTATTTGCCATCATTAGTACCTCTCAACTTACTTTTTAGAGGACAAGAAACAATCTGTAGATTGG
TTCCATACAGGGAAGTTCTCCGTCTATGCAATGTTTCTAATTAATTTGCTTAATTTCTGAGCCATTAATCCTGC
TACACTTTGAATGATACATTAATTCAGACTAATCTTTGGGGGCTTTATTTTGTAA GTTAGAACTTTCAAGGGAAA
CATGTTCAACACTATTATTTTGTATATAAATTTATAACTTTGTTATTACATTGTGTAAACAAATATAAGGTTTACGA
GCTATGAGAATTGGTGCTATCACCATTAGCTATTTGCTGTAATGTCAAGAAATGTTACCAGATGCAAGAAATGT
ACCTTTTCTTTTTAGAAAGCCAAATGTACTTTAGACATGAATGCAACTATTTAAAGAATAGCTTCATCAATGTTA
TTCCTTACATGTACATAAGATTCTTACTTAAACTTGGTCTTCTTTCAAATTGTTTGTATGAAGATGCTGTACCCAC
TTGAACAGTCCCTCAGGTGTTTACATAAATACTATGTTTTACAGTTTTTCATATTTTAAATATTAATAAAGTTAAA
TCACAATAGT

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FIGURE 6135

MKKNEVYETFSYPESYSPTLPVSRRENNSPSNLPRPSFCMEEYQRAELEEDPILSRTPSPVHPSDFSEHNCOPYY
ASDGATYGSSSGLCLGNPRADSIHNTYSTDHASAAPPSVTRSPVENDGYIEEGSITKHPSTWSVEAVVFLKQTD
PLALCPLVDLFRSHEIDGKALLLLTSDVLLKHLGVKLGTAVKLCYYIDRLKQGKCFEN

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FIGURE 6136

ATGAGCGAGTCGATCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGATGGCACTGAGAAGCGGAGC
TGGGGCAGGCCGCGCAAGCAGCCTCTGGTGAGTCCCAGGACAGCGCTGGGAGGGAGTCAGAAGGAGCCCAGTGAA
GTGCCAAAACCTAAGAGACCTCAGGGCCGACCAAATGGAAGGAAAAACAAGGACGCTGCCAAGACCTGGAAAACC
ACCACAACCTCCAGGAAGGAAACCAAGGGGCAGACCCAAAAAACTGGAGAAGGAGGAAGAGGAGGGCATCTCACAG
GAGTCCTCGGAGGAGGAGCATGA

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FIGURE 6137

MSESISKSSQPLASKQEKDGTETKRSWGRPRKQPLVSPRTALGGSQKEPSEVPKPKRPQGRPNRKNKDAAKTWKT
TTTPGRKPRGRPKKLEKEEEEGLSQESSEEEQ

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FIGURE 6138

ACTGAGGCGTGGCGTCTGCTGGGGCACCTGAAGGAGACTTGGGGGCACCCGCGTCGTGCCTCCTGGGTTGTGAGG
AGTCGCCGCTGCCGCCACTGCCTGTGCTTCATGAGGAAGATGCTCGCCGCCGTCTCCCGCGTGTGCTGCTGGCGCT
TCTCAGAAGCCGGCAAGCAGAGTGCTGGTAGCATCCCGTAATTTTGCAAATGATGCTACATTTGAAATTAAGAAA
TGTGACCTTCACCGGCTGGAAGAAGGCCCTCCTGTCAACAGTGCTCACCAGGGAGGATGGGCTCAAATACTAC
AGGATGATGCAGACTGTACGCCGAATGGAGTTGAAAGCAGATCAGCTGTATAAACAGAAAATTATTCGTGGTTTC
TGTCACCTTGTGTGATGGTCAGGAAGCTTGTGTGTGGGCCTGGAGGCCGGCATCAACCCACAGACCATCTCATC
ACAGCCTACCGGGCTCACGGCTTTACTTTACCCGGGGCCTTTCCGTCCGAGAAATTCTCGCAGAGCTTACAGGA
CGAAAAGGAGGTTGTGCTAAAGGGAAAGGAGGATCGATGCACATGTATGCCAAGAACTTCTACGGGGGCAATGGC
ATCGTGGGAGCGCAGGTGCCCTGGGCGCTGGGATTGCTCTAGCCTGTAAGTATAATGGAAAAGATGAGGTCTGC
CTGACTTTATATGGCGATGGTGCTGCTAACCAGGGCCAGATATTCGAAGCTTACAACATGGCAGCTTTGTGGAAA
TTACCTTGTATTTTCATCTGTGAGAATAATCGCTATGGAATGGGAACGTCTGTTGAGAGAGCGGCAGCCAGCACT
GATTACTACAAGAGAGGCGATTTTCATTCTGGGCTGAGAGTGGATGGAATGGATATCCTGTGCGTCCGAGAGGCA
ACAAGGTTTGTGCTGCCTATTGTAGATCTGGGAAGGGGCCATCCTGATGGAGCTGCAGACTTACCGTTACCAC
GGACACAGTATGAGTGACCCTGGAGTCAGTTACCGTACACGAGAAGAAATTCAGGAAGTAAGAAGTAAGAGTGAC
CCTATTATGCTTCTCAAGGACAGGATGGTGAACAGCAATCTTGCCAGTGTGGAAGAACTAAAGGAAATTGATGTG
GAAGTGAGGAAGGAGATTGAGGATGCTGCCCAGTTTGCCACGGCCGATCCTGAGCCACCTTTGGAAGAGCTGGGC
TACCACATCTACTCCAGCGACCCACCTTTTGAAGTTGTTGGTGCCAATCAGTGGATCAAGTTTAAGTCAGTCAGT
TAAGGGGAGGAGAAGGAGAGGTTATACCTTCAGGGGGCTACCAGACAGTGTCTCACTTGGTTAAGGAGGAAGA
AAACCCAGTCAATGAAATTCAATGAAATTCTTGAAACTTCCATTAAGTGTGTAGATTGAGCAGGTAGTAATTGC
ATGCAGTTTGTACATTAGTGCATTAAAAGATGAATTATTGAGTGCTT

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FIGURE 6139

MRKMLAAVSRVLSGASQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLTREDGLKYYRMMQTVRRME
LKADQLYKQKIIRGFCHLCDGQEACCVGLEAGINPTDHLITAYRAHGFTFTRGLSVREILAELTGRKGGCAKGKG
GSMHMYAKNFYGGNGIVGAQVPLGAGIALACKYNGKDEVCLTLYGDGAANQGQIFEAYNMAALWKLPCIFICENN
RYGMGTSVERAAASTDYYKRGDFIPGLRVDGMDILCVREATRFAAAYCRSGKGPILMELQTYRYHGHSMSDPGVS
YRTREEIQEVRKSDPIMLLKDRMVNSNLASVEELKEIDVEVRKEIEDAAQFATADPEPPLEELGYHIYSSDPPF
EVRGANQWIKFSVS

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FIGURE 6140

GGGCGCAGCACACTCCCAGCCGGCCGCAGCCTGACACGCCGCGCGGCCCCCAGTCTCCCGCGGCTGCTCCCCCA
GGCATGGCACAGGGCCTCGCCTCACTATGCGCAGCAGCACGGCACAGCACGCTCGACTTCATGCTCGGCGCCAAAG
CTGATGGTGAGACCATTCTAAAAGGCCTCCAGTCCATTTTCCAGGAGCAGGGGATGGCGGAGTCGGTGACACCT
GGCAGGACCATGGCTATTTAGCAACCTACACAAACAAGAACGGCAGCTTTGCCAATTTGAGAATTTACCCACATG
GATTGGTGTTGCTGGACCTTCAGAGTTATGATGGTGATGCGCAAGGCAAGAAGAGATCGACAGTATTTTGAACA
AAGTAGAGGAAAGAATGAAAGAATTGAGTCAGGACAGTACTGGGCGGGTGAAACGATTACCACCCATAGTGCGAG
GAGGAGCCATCGACAGATACTGGCCACCGCCGACGGGCGCCTGGTTGAATATGACATAGATGAAGTGGTATATG
ACGAAGATTACCTTATCAAAATATAAAAATTCTACACTCGAAGCAGTTTGGAAATATTCTCATCCTTAGTGGGG
ATGTTAATTTGGCAGAGAGTGATTGGGCATATACCCGGGCCATCATGGGCAGTGGCAAAGAAGATTACACTGGCA
AAGATGTACTCATTCTGGGAGGTGGAGACGGAGGCATATTGTGTGAAATAGTCAAACTAAAACCAAAGATGGTCA
CTATGGTAGAGATTGACCAAATGGTGATTGATGGGTGTAAGAAATACATGCGAAAAACGTGTGGCGATGTCTTAG
ACAATCTTAAAGGAGACTGCTATCAGGTTCTAATAGAAGACTGTATCCCGGTACTGAAGAGGTACGCCAAAGAAG
GGAGAGAATTTGATTATGTGATTAATGATTTGACAGCTGTTCCAATCTCCACGTCTCCAGAAGAAGATTCCACAT
GGGAGTTTCTCAGACTGATTCTTGACCTCTCAATGAAAGTGTGAAACAGGATGGGAAATATTTTACACAGGGGA
ACTGTGTCAATCTGACAGAAGCACTGTCGCTCTATGAAGAACAGCTGGGGCGCCTGTATTGTCTGTGGAATTTT
CAAAGGAGATCGTCTGTGTCCCTTCATACTTGGAATTGTGGGTATTTTACACTGTTTGAAGAAAGCTAAACCCCT
GAAGATCAGTAGCCCCTAATCACATGTGCTGCAAATAGCCTTCCTGACCTCCATATGCTGTACATGACATCAAAA
TGAGTCAGGCAATTGATTGTGAATTCCTTAAAGTTTTCTTTTTTTAATAATTATTTTAAATTTAAAAAAGCAAA
TGGAAATGTATATTTTGTAGCTTAGGGTGTTTTTTTTTTGAAGTCAGCTGAAGGATGGTTAGACAGCACAG
CGAAGACTGCTAAATGCACTGACCCCCCATTAGAATGTGATTTTGTTCCTTTTATTCTCTGTGGGCTTTT
GTTTTGTGTTTTGTTTTGGTAGATCTTCAATTTGGATATTTGGAGGAGTGAACATCGTTGTTTTGCTGGAGGGAA
GATCTTGATGGTGTTCCTTTCCCCAAAATTGACTTAGATATTAAATTTGGTGCTTATAAGAGAGAGTTAAAAA
AAAATAGGATTGCTTCAATTAAAATTACAAAAGAGACAAAAA

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FIGURE 6141

MAAARHSTLDFMLGAKADGETILKGLQSIHQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYPHGLVLLDLQS
YDGAQGKEEIDSILNKVEERMKELSQDSTGRVKRLPPIVRGGAIDRYWPTADGRLVEYDIDEVVYDEDSFYQNI
KILHSKQFGNILILSGDVNLAESDLAYTRAIMSGSKEDYTGKDVILGGGDGGILCEIVKLKPKMVTMVEIDQMV
IDGCKKYMRTKCGDVLNKGDCYQVLIEDCIPVLKRYAKEGREFDYVINDLTAVPISTSPPEEDSTWEFLRLILD
LSMKVLKQDGKYFTQGNCVNLTEALSLYEEQLGRLYCPVEFSKEIVCVPSYLELWVFYTVWKKAKP

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FIGURE 6142

GTCAGCCAGTCAGTCCGCCAGTCCGCCAGCCAGTACCTCTCTCTCCTCGGCCCTCGTAAGCTGTCCGCGGTCTG
TTTGGCCCCGAACGGCGGCGGAGGCGCTGATCATGGCGACATTCACTCTCGGTGCAGCTGAAAAAGACCTCAGAGGT
GGACCTGGCCAAGCCGCTGGTGAAGTTCATCCAGCAGACTTACCCAAGCGGCGGGGAAGAGCAGGCCCAGTACTG
CCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCCGCTCGTCCGCTGGACAAGCACGAGGGCGCGCT
CGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGAACCCAAATTTCCATTTTTCTGAAAATCAGATCTG
CTTGACATTTACCTGGAAGGATGCTTTTCGATAAAGGTTCACTTTTTTGGAGGCTCTGTAAAATGGCTCTTGCAAG
CTTAGGATATGAAAAGAGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAGAACCT
GGATAATGATGAAGGATTGAAAATCGCTGCTAAACATTACCAGTTTGCTAGTGGTGCCTTTTTTACATATTAAAGA
GACGGTTTTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACTGTTGGGACCCTCAGTCTTAT
TATGCTGGCACAGGCTCAAGAAGTATTTTTTTTTAAAGCCACAAGAGATAAAATGAAAGATGCCATCATAGCTAA
ATTGGCTAATCAGGCTGCAGATTATTTTGGTGATGCTTTCAAACAGTGTCAATACAAAGATACTCTCCCCAAGGA
GGTGTTCCTGTCTTGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTACCATCAGTCTATCCTGGCAAA
ACAGCAGAAGAAATTTGGAGAAGAAATTGCAAGGTTACAGCATGCAGCAGAACTGATTAAAACAGTGGCATCTCG
CTATGATGAATATGTTAATGTGAAGGATTTTTCTGACAAAATCAATCGTGCCCTTGCTGCAGCAAAGAAGGATAA
TGACTTCATTTATCATGATCGAGTTCAGACCTTAAAGATCTAGATCCTATTGGCAAAGCCACACTTGTGAAATC
TACCCCGGTCAATGTACCCATCAGTCAGAAATTTACTGATCTGTTTGAGAAGATGGTTCCCGTGTCTAGTACAGCA
GTCTTTGGCTGCCTATAATCAGAGGAAAGCCGATTTGGTTAACAGATCAATTGCTCAGATGAGAGAAGCCACCAC
TTTGGCAAATGGGGTGCTAGCTTCCCTTAATCTTCCAGCAGCAATTGAAGATGTGTCTGGAGACACTGTACCTCA
GTCTATATTGACTAAATCCAGATCTGTGATTGAACAGGGAGGCATCCAGACTGTTGATCAGTTGATTAAAGAACT
GCCTGAATTACTGCAACGAAATAGAGAAATCCTAGATGAGTCATTAAGGTTGTTGGATGAAGAAGAAGCAACCGA
TAATGATTTAAGAGCAAAATTTAAGGAACGTTGGCAAAGGACACCATCCAATGAAGTGTATAAGCCTTTAAGAGC
AGAGGGAACCAACTTCAGAACAGTTTTAGATAAAGCTGTGCAGGCAGATGGACAAGTGAAAGATGTTACCAGTC
TCATCGTGACACCATCGTGCTTTTGTGTAAGCCAGAGCCTGAGCTGAATGCTGCCATCCCTTCTGCTAATCCAGC
AAAGACCATGCAAGGCAAGTGAGGTTGTAAATGTCTTAAATCCTTATTGTCAAATCTTGATGAAGTAAAGAAGGA
AAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTTGACATGACAAGCAAGTTTTTGACAGCCCTGGCTCA
AGATGGTGTGATAAATGAAGAAGCTCTTCTGTTACTGAACTAGATCGAGTCTATGGAGGCTTACAACATAAAGT
CCAAGATCTCTAAAGAAACAGGAGGGACTTCTTAAAAATATTAGGTTCTACATCAGGAATTTTCAAAAATGAA
ACAATCTAATAATGAAGCTAAGTAAAGAGAAGAAGTTTTGAAGAATTTAGCTACTGCATATGACAACCTTGTGTA
ACTTGTAGCTAATTTGAAGGAAGGCACAAAGTTTTACAATGAGTTGACTGAAATCCTGGTCAGGTTCCAGAACAA
ATGCAGTGATATAGTTTTTGCACGGAAGACAGAAAGAGATGAAGTCTTAAAGGACTTGCAACAAAGCATTGCCAG
AGAACCTAGTGCTCGTACAATTCCTACACCTGCGTATCAGTCCTCACCAGCAGGAGGACATGCACCACTCCTCCA
ACTCCAGCGCCAAGAACCATGCCGCTACTAAGCCCCAGCCCCAGCCAGGCXTCCACCACCTGTGTTTCCAGCA
AATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGGACTGCTGCGCCAGCTCCATCACAACGCGCT
GGCTCAGCTCCTCCTCCACAGGCGCAGGGACCACCTATTXCCCCCTATCCAGGATATCCTGGGTATTGCCAAAT
GCCCATGCCCATGGGCTATAATCCTTATGCGTATGGCCAGTATAATATGCCATATCCACCAGTGTATCACCAGAG
TCCTGGACAGGCTCCATACCCGGGACCCAGCAGCCTTCATACCCCTTCCCTCAGCCCCCACAGCAGTCTTACTA
TCCACAGCAGTAATATGTCTGCTCAGCAGCTCAGCTGATTAGATCAGAGGGAAAGAAATACCAACCCTGCAATA
AGTGTACTAACTCTACGCTCTGGTTAATGTAATGTACTCTCTGGACTGAATGCAGTGTATAATTTCTGTCTAC
AGCTAGAAGCTGTGCCCCAGTTCCACATTTGATTACACATGTGAGATTTGCTGCTGTTGCAGTATAAACACTAGG
TATAATAGGATTTGAAATTGCATTACAGTTTATAAAAATTGAAAATGAGAAATTAACCTGCAAGTGAAACATTT
GAAACGATTATACTTTCTACATAAGACATGGTTGGGACATCAGATACTTACAAAGATGGTTTAAAGTATGGATACT
AGAGAAAATTAAGTTTTCTTTCTTTTGGTTTATTGATTTGGTTTAAATTTCCATTATGCTATTTTGATAATCAA
GGCACTGTAAATCTTATAATTTTTAAATAAATTACTTAAAGAACAGTTGTCATTGTTATGTTTTGTTATTGATTCT
CATTACTGTCTAATTTTTTTTTCTGGTATTAGTCTCATTGTTGATGTATATAAGTTAAACAGATACTGTTTTTAAG
TGCATGAATAGTACAAGTTATTATCAAGGATGTTTTACAGGGAAATCAAAAGAATATTATCATACTTTATCTTTC
GTATGCTGATTAGTAAACGATTTTTGACATTTATTTTAGAAAGTCTTATAATGTGGAAGAAACAAACAGTTGCTA
CCAAAGATTCTTCAAATAAACATACAAATAAATGTGTATATTTAATGTTTTATTGTTAGCTTCTCCAGAAAATTG
ATGCAAAATCTGGTAATAATTCTTGCAATTTTTTCCCCAATAACCTGGTTAAATAGAAATACGCCAT

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FIGURE 6143

TTTCCTTCCTCTTTTGGCAACATGCGGGGCGGAGAAGCTGGAGTGA CTCTAGGGCAGCCGCATCTTTTCGCGTCAG
GATCTCACCACCTTGGATGTTACCAAGTTGACGCCACTTTTCACACGAAGTTATCAGCAGACAAGCCACAATTAAC
ATAGGTACAATTGGTCATGTAGCTCATGGGAAATCCACAGTCGTCAAAGCTATTTCTGGAGTTCATACTGTCAGG
TTCAAAAATGAACTAGAAAGAAATATTACAATCAAGCTTGGATATGCTAATGCTAAGATTTATAAGCTTGATGAC
CCAAGTTGCCCTCGGCCAGAATGTTATAGATCTTGTGGGAGCAGTACACCTGACGAGTTTCTACGGACATTCCA
GGGACCAAAGGGAACCTTCAAATTAGTCAGACATGTTTCTTTGTTGACTGTCCTGGCCACGATATTTTGATGGCT
ACTATGCTGAACGGTGCAGCAGTGATGGATGCAGCTCTTCTGTTGATAGCTGGTAATGAATCTTGCCCTCAGCCT
CAGACATCGGAACACCTGGCTGCTATAGAGATCATGAACTGAAGCATATTTTGATTCTACAAAATAAAAATTGAT
TTGGTAAAAGAAAGTCAGGCTAAAGAACAATACGAGCAGATCCTTGCAATTTGTCCAAGGTACAGTAGCAGAGGGA
GCTCCCATATTCCAATTTTCAGCTCAGCTGAAATACAATATTGAAGTTGTTTGTGAGTACATAGTAAAGAAAATT
CCAGTACCCCCAAGAGACTTTACTTCAGAGCCCCGGCTTATTGTTATTAGATCTTTTGATGTCAACAAACCTGGC
TGTGAAGTTGATGACCTTAAGGGAGGTGTAGCTGGTGGTAGTATCCTAAAAGGAGTATTAAAGGTGGGCCAGGAG
ATAGAAGTAAGACCTGGTATTGTTTCCAAAGATAGTGAAGGAAACTCATGTGTAAACCAATCTTTTCCAAAATT
GTATCACTTTTTGCGGAGCATAATGATCTGCAATATGCTGCTCCAGGCGGTCTTATTGGAGTTGGAACAAAATT
GACCCCACTTTGTGCCGGGCTGACAGAAATGGTGGGGCAAGTACTTGGTGCAGTCGGAGCTTTACCTGAGATATTC
ACAGAATTGGAAATTTCTTATTTCTGCTTAGACGGCTTCTAGGTGTACGCACTGAAGGAGACAAGAAAGCAGCA
AAGGTTCAAAAGCTGTCTAAGAATGAAGTGCTCATGGTGAACATAGGATCCCTGTCAACAGGAGGGAGAGTTAGT
GCTGTCAAGGCCGATTTGGGTAAAATTGTTTTGACCAATCCAGTGTGCACAGAGGTAGGAGAAAAAATTGCCCTT
AGCCGAAGAGTTGAAAAACACTGGCGTTTAATTGGTTGGGGTCAGATAAGAAGAGGAGTGACAATCAAGCCAACA
GTAGATGATGACTGAAGAAATACCAGTTAAATAATACATTCCGATGGATTGGAAGTTGGAATTCCTCTTAACAAC
CAAGGGGTTTATTTTCAAAGCAATATTGGGGAATTGATTTACAGTTTCGTTACCTTAGTAGGTAACGGTAAGGTT
ATTCTCTTTTTTTTTTTTTTTTTGGTTATGAAAACCTTAGGGACTAAAATTAATATAAAAAATTGGCATAATGTTGGAT
TGAATCTACATTTTGGCAGAAGTTAAACATTCCACATAATGTCAAAATTATACATCATGCAGTTCTGTTTTTTT
GTTTGTTTAAATTTTGTTTTGTTTTGAGTCTGGCTCTGTACCCAGGCTGGAGTGCAGTGGCGTGATCTGCAACC
TCTGCCCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACAGGTGCGCGCCACCACA
CTTGGCTAATTTTTGTATTATTAGTAGAGACGGGTTTTAGCATGTTGGCTAGGCCGGTCTCTCCTGACCTCAGG
GTGATCAGCCACCTCGGCCTCACAAAGTGCTGGGATTACAGGCGTGAGCCACCTTGCCCAGCCACATCATACA
GTTTGAAATGAACTTTGCCACAACCAGCCTTTGCTGTAGCACACACATATCACTGAACCTGTTTGAAATAAA
GTTTTTTTTCTTTTTCATGATTGCTCTTTGAGTACCTCCAGGCTGAAAGACTGTTGTACCAGTAAAAACTTAAAG
GCACAAATTCTCCTTGAAGACCTTCTCCCTTTTATGTGGCCCCATATTTATGTTGCTTTATCTTTGAAATTTTG
CATGAAAAGGAAATGAATGGATTGGAATGAAATTGTCCTTTAGAGCATGATTACTTGTTCCTCATGGACAAATATT
TTTCTCCCTTGCTCTTCTGGCCTGAAACACGGGAAACCAGAGTCAAAAGTTATCTCCCTCTCCCTGTGATGCC
TTGAGATTTTTTTCTGCGTTGTTTAAATGCCTGAAATCCAAGTCTTCTCCATGGGAAAATACTGTTATACCAAT
AATTCTAGATGAGTAACAAAGATCTTTTAGGCCTTCATTTTATGTTTTTCTTAACTGTTATATTATGATTGTG
ACATAGATTATACTACTACTAATTTTTGGATGTTTCAAAAGGTCAAGAAGTAAAGATGTTAGAAAGCAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 6144

MAGGEAGVTLGQPHLSRQDLTTLDVTKLTPLSHEVISRQATINIGTIGHVAHGKSTVVKAISGVHTVRFKNELER
NITIKLGYANAKIYKLDDPSCPRPECYRSCGSSTPDEFPTDIPGTKGNFKLVRHVSFVDCPGHDILMATMLNGAA
VMDAALLLIAGNESCPOFQTSEHLAAIEIMKLKHILILQNKIDLVKESQAKEQYEQILAFVQGTVAEGAPIIPIS
AQLKYNIEVVCEYIVKKIPVPPRDFTSEPRLIVIRSFVDVNKPGCEVDDLKGGVAGGSILKGVLKVGQEIEVRPGI
VSKDSEGKLMCKPIFSKIVSLFAEHNDLQYAAPGGLIGVGTKIDPTLCRADRMVGQVLGAVGALPEIFTELEISY
FLLRRLLGVRTEGDKKAAKVQKLSKNEVLMVNIGSLSTGGRVSAVKADLGKIVLTNPVCTEVGEKIALSRRVEKH
WRLIGWGQIRRGVTIKPTVDDD

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FIGURE 6145

CTCTCTCCGGTCTGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTCGCTGCACTAAATGTGCCCCGATGCGTGCCCAAGGAACAAGGCCATTAAGAAATTCGTCATTTCGA
AACATAGTGGAGGCCGAGCAATCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCCGC
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 6146

CTCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCAGAGACCTGAAAAGCCCCGCCGGCC
TCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAG
TATTTGAAGCCGTGTCCAGCCCACTGCCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTT
ACGAAAAGGAAAAGGCCAGCCTGCCAGGAGTGAAGAAAGCTTTGGGCAAGTATGGTCCTGCCGATGTGGAAGACA
CTACAGGAAGTGGAGCTACAGATAGTAAAGATGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAA
GTGAAGAAGCAAAGAGGCTAAGGGAAGAACGTCTTGACAATATGAATCAAAGAAAGCCAATGATGAGACAGATA
TGGCGAAATTAGAGGAGCGCGTCAGAAGCATTCAAGCAGACGGCTTAGTCTGGGGCTCATCTAAACTAGTTCCAG
TGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAAAGTCGGAACAGATATGCTGGAGG
AGCAGATCACTGCTTTTGAGGACTACGTGCAGTCCATGGATGTGGCTGCTTTCAACAAGATCTAAAATCCATCCT
GGATCATG

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FIGURE 6147

ATCCTGACTTCCGCTTTGGAGGCGAGGACCCGAGCGAGTGTAGGGGGTGCGGCGTCTGGTCAGCCAGGGGTGAAT
TCTCAGGACTGGTCGGCAGTCAAGCCATCATGCTCGTGGTCAGAAGAGTAAGCTCCGTGCCCCGTGAGAAACGCC
GCAAGGCCCCGAGATGAGACCCGGGGTCTCAATGTTCTCAGGTCACTGAAGCAGAGGAAGAAGAGGCCCCCTGCT
GTTCTCTTCTGTTTCTGGGGGTGCTGCTTCAAGCTCTCTGCTGCTGGCATTCCCCAGAAGCCTCAGAGAGCCC
CAACCACTGCCGCTGCTGCGGGTGCAGGGTGTTCATCCACAAAATCTAAAAAGGTGCCAAGAGCCACCAAGGTG
AGAAAAATGCAAGTTCCTCCCAGGCCTCAACATCCACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAAGTCAG
GGTCGTTGGTGCAATTCTGTTGTACAAGTATAAAATAAAAAAGTCCGTTACAAAGGGAGAAATGCTGAAAATTG
TTGGCAAAAGGTTCAAGGAGCACTTCCCTGAGATCCTCAAGAAAGCCTCTGAGGGCCTCAGTGTTGTCTTTGGCC
TTGAGCTGAATAAAGTCAACCCCAACGGCCACACTTACACCTTCATCGACAAGGTAGACCTCACTGATGAGGAAT
CCCTGCTCAGTTCCTGGGACTTTCCAGGAGAAAGCTTCTGATGCCTCTCCTGGGTGTGATCTTCTTAAATGGCA
ACTCAGCTACTGAGGAAGAGATCTGGGAATTCCTGAATATGTTGGGAGTCTATGATGGAGAGGAGCACTCAGTCT
TTGGGGAACCCTGGAAGCTCATCACCAAGATCTGGTGCAGGAAAAATATCTGGAGTACAAGCAGGTGCCAGCA
GTGATCCCCACGCTTTCAATTCCTGTGGGGTCCGAGAGCCTATGCTGAAACCAGCAAGATGAAAGTCTTGAGT
TTTTGGCCAAGGTAAATGGTACCACCCCTGTGCCTTCCCAACCCATTACGAAGAAGCTTTGAAAGATGAAGAGA
AAGCCGGAGTCTGAGCCAGAGTTGTAGCCAGGCCTTGCACTACTGCCATAGCCAATCAATCTCCCAAGCCAAGT
TTACCTGCTGTTCTCACCCCAATGAGGTCTTAGGCAGATTCTTTACTTTGTAATCAAAAGGCCTGTTAACCTT
TGTTCTTGTTATGCAATGAATAACTTGTGACTTTTTTTTTTCTCTTTTCAACTAGTGTTTCAACAGGTTTATT
TAGATTGAGAAATGTAATTTACAAATGATATAGATCACCTGTTATTGCTGTTTTTCAGGGACAGTAGAAAGTGT
TTTGTTTTTTGAGTGAAACAACCTTATTAATAAAAAATCCTTAAATCACTTTTGTAATCCAGGACAAGAAAAATGTGG
CATTAGAGTAGAAATATCTTTGGAAATGTGAAAGACCCCATAGTGAATATTTGGGATCAGAAGCCAGAGGTGTA
AAAGTGGTCAATTCTTGGTTTACTTCAATTTAATCTTTCTTTTCATAAAGATACATACCTGGATTTGTTTATGTTA
TTCAAGAATGTGTGAGAAATTAACCATAGTTAGTTAA

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FIGURE 6148

MPRGQKSKLRAREKRRKARDETRGLNVPQVTEAEEEEAPCCSSSVSGGAASSSPAAGIPQKPQRAPTTAAAAAAG
VSSTKSKKGAKSHQGEKNASSSQASTSTKSPSEDPLTRKSGSLVQFLLYKYKIKKSVTKGEMLKIVGKRFRHF
EILKKASEGLSVVFGLELNKVPNGHTYTFIDKVDLTDEESLLSSWDFPRRKLMLLGVIFLNGNSATEEEIWE
FLNMLGVYDGEHVSFGEFPWKLITKDLVQEKYLEYKQVPSSDPPRFQFLWGPRAYAETSKMKVLEFLAKVNGTTP
CAFPTHYEEALKDEEKAGV

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FIGURE 6149

CTCCTCTAGGCCGCCGGCCGCGAAGCGCTGAGTCACGGTGAGGCGACTGGACCCACACTCTCTTAACCTGCCCTC
CCTGCACTCGCTCCCGGCGGGCTCTTCGCGTCACCCCGCCGCTAAGGCTCCAGGTGCCGCTACCGCAGCGTGAGT
ACCTGGGGCTCCTGCAGGGGTCCACTAGCCCTCCATCCTCTACAGCTCAGCATCAGAACACTCTCTTTTTAGACT
CCGATATGGGGTCTCTCCAAGAAAGTTACTCTCTCAGTGCTCAGCCGGGAGCAGTCGGAAGGGGTTGGAGCGAGGG
TCCGGAGAAGCATTGGCAGACCCGAGTTAAAAAATCTGGATCCGTTTTTACTGTTTGATGAATTTAAAGGAGGTA
GACCAGGAGGATTTCTGTATCATCCACATCGAGGTTTTGAAACAGTATCCTACCTCCTGGAAGGGGGCAGCATGG
CCCATGAAGACTTCTGTGGACACACTGGTAAATGAACCCAGGAGATTTGCAGTGGATGACTGCGGGCCGGGGCA
TTCTGCACGCTGAGATGCCCTTGCTCAGAGGAGCCAGCCCATGGCCTACAACTGTGGGTAAATTTGAGGAGCTCAG
AGAAGATGGTGGAGCCTCAGTACCAGGAAGTGAAGAAATCCCTAAACCCAGTAAGGATGGTGTGACAG
TTGCTGTCAATTTCTGGAGAAGCCCTGGGAATAAAGTCCAAGGTTTACACTCGCACACCAACCTTATATTTGGACT
TCAAATTGGACCCAGGAGCCAAACATTCCCAACCTATCCCTAAAGGGTGGACAAGCTTCATTTACACGATATCTG
GAGATGTGTATATTGGGCCCGATGATGCACAACAAAAATAGAACCTCATCACACAGCAGTGCTTGGAGAAGGTG
ACAGTGTCCAGGTGGAGAACAAGGATCCCAAGAGAAGCCACTTTGTCTTAATTGCTGGGGAGCCATTAAGAGAAC
CAGTTATCCAACATGGTCCATTTGTGATGAACACCAATGAAGAGATTTCTCAAGCTATTCTTGATTTCAGAAACG
CAAAAAATGGGTTTGAAAGGGCCAAAACCTGGAAATCAAAGATTGGGAACTAGTGGAAAGCGGAAGAGCAGGTCT
TGATGTGTCCTAGAATTTTGCCATTTCTGAGATTGAGCCATTGAAGGCATTCCATTTCTAAAGCTTATTTAGCCG
GTGCTTCTAAAGAATTCCACACTAACGTGATAACATGGTTTTTGTAAACAATAAATGTAGGATATTTCTGGCACA
TGCAAATAAACCTAATCATTGTTTCTTTAAAAA

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FIGURE 6150

MGSSKKVTL SVLSREQSEGVGARVRRSIGRPELKNLDPFLLFDEFKGGRPGGFPDHPHRGFETVSYLLEGGSMHAH
EDFCGHTGKMNP GDLQWMTAGRGILHAEMPCSEEP AHGLQLWVNLRSSSEKMVEPQYQELKSEEIPKPSKDGVTV
VISGEALGIKSKVYTRTPTLYLDFKLDPGAKHSQPIPKGWTSFIYTIISGDVYIGPDDAQQKIEPHHTAVLGE
GDS
VQVENKDPKRSHFVLIAGEPLREPVIQHGP FVMNTNEEISQAILDFRNAKNGFERAKTWKSKIGN

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FIGURE 6151

CTCTCTGCTCCTCCTGTTCTACAGTCAGCCGCATCTTCTTTTGCATCGTCAGCCAAACCACATCCCTGAGACACC
ATGGGGAAGGTGAAGGTCGGAGTCAACAGATTTGGTCGTACTGGGCGCCTGGTTCACCAGGGCTGCTTTTAACTCT
GGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTGAACTACATGGTTTACATGTTCCAATATGAC
TCCACCCATAGCAAATTCCATGGCACCCTCAAGGCTGAGAATGGGAAGCTTGTTCATCAATGGAAATCCCATCACC
ATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGTACGTCATGGAGTCCACTGGC
GTCTTACCACCATGTAGAAGGCTGGGCCTCATTTCAGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCT
GCTGATGCCCCAATGTTTGTTCATGGGTGTGAACCATGAGAAGTATGACAACAACCTCAAGATTGTCGGCAGTGCC
TTCTGCACCACCAACTGCTTAGCACCCCTGGCCAAGGTTCATCCATGACAACCTTTGGTATCGTGGGAAGGACTCATG
ACCATAGTCCACGCCATCACTGCCACCCAGAAGACTGTGGATGGCCCCCTCCGGGAAACTGTGGCGTGATGGCCAC
GGGGCTCTCCAGAACATCATCCCTGCCTCTACTGGCACTGCGAAGGCTATGGGCAAGGTTCATCCCTGAGCTGAAC
GGGAAGCTCACTGGCATGGCCTTCTGTGTCCCCACTGCCGTGTGAGTGGTGGACCTGACCTGCCGTCTGGAAAAA
CCTGCCAAATATGATGACACCAAGAAGGTGGTGAAGCAGGCATCGGAGGGCCCCCTCAAGGGCATCCTGGGCTAC
ACTGAGCACCAGGTGGTCTCCTCCGACTTCAACAGCAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTCATT
GCCCTCAACAACCACTTTTTCAAGCTCATTTCTGGTATGACAATGAATTTGGCTACAGCAACAGGATGGTGGAC
CTCATGGCCCACATGGCCTCCAAGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAG
AGACCCTCACTGCTGGGGAGTCCCTGCCACACTCAGTCCCCCACCACACTGAATCTCCCCTCCTCACAGTTTCCA
TGTAAGACCCCTTGAAGAGGGGAGGGGCCTAGGGAGCCCCACCTTGTCATATACCATCAATAAAGTACCCTGTGCT
CAGCC

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FIGURE 6152

CTTTTGATCGTCAGCCAAACCACATCCCTGAGACACCATGGGGAAGGTGAAGGTCGGAGTCAACAGATTTGGTC
GTACTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCTGGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCA
TTGACCTGAACTACATGGTTTACATGTTCCAATATGACTCCACCCATAGCAAATTCATGGCACCGTCAAGGCTG
AGAATGGGAAGCTTGTCATCAATGGAAATCCCATCACCATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGG
GCGATGCTGGCGCTGAGTACGTCATGGAGTCCACTGGCGTCTTACCACCATGTAGAAGGCTGGGCCTCATTTC
AGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCTGCTGATGCCCCAATGTTTGTGTCATGGGTGTGAACCATG
AGAAGTATGACAACAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTCATTGCCCTCAACAACCACTTTTTCA
AGCTCATTTCCTGGTATGACAATGAATTTGGCTACAGCAACAGGATGGTGGACCTCATGGCCCACATGGCCTCCA
AGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAGAGACC

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FIGURE 6153A

CCTCTGCCACCATGGGGAACTGGGCTGTGAATGAGGGGCTCTCCATTTTTGTCATTCTGGTTTGGCTGGGGTTGA
ACGTCTTCTCTTTGTCTGGTATTACCGGGTTTATGATATTCACCTAAGTTCTTTTACACAAGAAAACCTTCTTG
GGTCAGCACTGGCACTGGCCAGGGCCCCCTGCAGCCTGCCTGAATTTCAACTGCATGCTGATTCTCTTGCCAGTCT
GTCGAAATCTGCTGTCTTCTCAGGGGTTCCAGTGCGTGCTGCTCAACAAGAGTTTGAAGACAACCTGGACAGGA
ATCTCACCTTTCATAAAATGGTGGCATGGATGATTGCACTTCACTCTGCGATTACACCATTCACATCTATTTA
ATGTGGAATGGTGTGTGAATGCCCGAGTCAATAATTCTGATCCTTATTTCAGTAGCACTCTCTGAACCTGGAGACA
GGCAAAATGAAAGTTATCTCAATTTTGCTCGAAAGAGAATAAAGAACCCTGAAGGAGGCCTGTACCTGGCTGTGA
CCCTGTTGGCAGGCATCACTGGAGTTGTTCATCAGCTGTGCCTCATATTAATTATCACTTCCTCCACCAAAACCA
TCCGGAGGTCTTACTTTGAAGTCTTTTGGTACACACATCATCTCTTTGTGATCTTCTTCATTGGCCTTGCCATCC
ATGGAGCTGAACGAATTGTACGTGGGCAGACCGCAGAGAGTTTGGCTGTGCATAATATAACAGTTTGTGAACAAA
AAATCTCAGAATGGGGAAAAATAAAGGAATGCCCAATCCCTCAGTTTGTGCTGGAACCCCTCTATGACTTGGAAAT
GGATAGTGGGTCCCATGTTTCTGTATCTCTGTGAGAGGTTGGTGCGGTTTGGCGATCTCAACAGAAGGTGGTCA
TCACCAAGGTGGTCACTCACCTTTCAAACCATCGAGCTACAGATGAAGAAGAAGGGGTTCAAAATGGAAGTGG
GACAATACATTTTGTCAAGTGCCCAAAGGTGTCCAAGCTGGAGTGGCACCCCTTTTACACTGACATCCGCCCCCTG
AGGAAGACTTCTTAGTATCCATATCCGCATCGTTGGGGACTGGACAGAGGGGCTGTTCAATGCTTGTGGCTGTG
ATAAGCAGGAGTTTCAAGATGCGTGGAACCTACCTAAGATAGCGGTTGATGGGCCCTTTGGCACTGCCAGTGAAG
ATGTGTTCACTATGAGGTGGTGTATGTTAGTGGGAGCAGGGATTGGGGTCACACCCCTTCGCATCCATTCTCAAGT
CAGTCTGGTACAAATATTGCAATAACGCCACCAATCTGAAGCTCAAAAAGATCTACTTCTACTGGCTGTGCCGGG
ACACACATGCCTTTGAGTGGTTTGCAGATCTGCTGCAACTGCTGGAGAGCCAGATGCAGGAAAGGAACAATGCCG
GCTTCTCAGCTACAACATCTACCTCACTGGCTGGGATGAGTCTCAGGCCAATCACTTTGCTGTGCACCATGATG
AGGAGAAAGATGTGATCACAGGCCTGAAACAAAAGACTTTGTATGGACGGCCCAACTGGGATAATGAATCAAGA
CAATTGCAAGTCAACACCCTAATACCAGAATAGGAGTTTTCCTCTGTGGACCTGAAGCCTTGGCTGAAACCCCTGA
GTAAACAAAGCATCTCCAACCTGAGTCTGGCCCTCGGGGAGTGCATTTCAATTTCAACAAGGAAAACCTCTAAC
TTGCTCTTCCATGAGGAATAAATGTGGGTTGTGCTGCCAAATGCTCAAATAATGCTAATTGATAATATAAATA
CCCCCTGCTTAAAAATGGACAAAAGAACTATAATGTAATGGTTTCCCTTAAAGGAATGTCAAAGATTGTTTG
ATAGTGATAAGTTACATTTATGTGGAGCTCTATGGTTTGGAGCACTTTTACAAACATTATTTCAATTTTTTCC
TCTCAGTAATGTGAGTGGAAAGTTAGGGAAAAGATTCTTTGGACTCAATTTTAGAATCAAAAGGGAAGGATCAAAA
GGTTCAGTAACCTCCCTAAGATTATGAACTGTGACCAGATCTAGCCCATCTTACTCCAGGTTTGATACTCTTTC
CACAATACTGAGCTGCCTCAGAATCCTCAAAATCAGTTTTTATATTCCCAAAAGAAAGGAAACCAAGGAGTA
GCTATATATTTCTACTTTGTGTCAATTTTTGCCATCATTATTATCATACTGAAGGAAATTTCCAGATCATTAGGA
CATAATACATGTTGAGAGTGTCTCAACACTTATTAGTGACAGTATTGACATCTGAGCACTCCAGTTTACTAAT
ACAGCAGGGTAACTGGGCCAGATGTTCTTTCTACAGAAGAATATTGGATTGATTGGAGTTAATGTAATCTCATC
ATTTACCAGTGTGCTTGGCAGAGAGCGGATACTCAAGTAAGTTTGTAAATGAATGAATGAATTTAGAACACACA
CAATGCCAAGATAGAATTAATTTAAAGCCTTAAACAAAATTTATCTAAAGAAATAACTTCTATTACTGTATAGA
CCAAAGGAATCTGATTCTCCCTAGGGTCAAGAACAGGCTAAGGATACTAACCAATAGGATTGCCTGAAGGGTTCT
GCACATTCTTATTTGAAGCATGAAAAAGAGGGTTGGAGGTGGAGAATTAACCTCCTGCCATGACTCTGGCTCAT
CTAGTCTGCTCCTTGTGCTATAAAATAAATGCAGACTAATTTCTGCCCCAAAGTGGTCTTCTCCAGCTAGCCCT
TATGAATATTGAACTTAGGAATTGTGACAAATATGTATCTGATATGGTCATTTGTTTTAAATAACACCCACCCCT
TATTTTCCGTAAATACACACACAAAATGGATCGCATCTGTGTGACTAATGGTTTATTTGTATTATATCATCATCA
TCATCCTAAAATTAACAACCCAGAAACAAAATCTCTATACAGAGATCAAATTCACACTCAATAGTATGTTCTGA
ATATATGTTCAAGAGAGAGTCTCTAAATCACTGTTAGTGTGGCCAAGAGCAGGGTTTTCTTTTGTCTTAGAAC
TGCTCCCATTCTTGGGAATAAAACAGTTTTATTTGCCCCACCCCTTGGAGCCACAAATGTTTAGAATCTTCA
ACTTCGGTAATGAGGAAGAAGGAGAAAGAGCTGGGGGAAGGGCAGAAGACTGGTTTAGGAGGAAAAGGAAATAAG
GAGAAAAGAGAATGGGAGAGTGAGAGAAAATAAAAAAGGCAAAAGGAGAGAGAGGGGAAGGGGGTCTCATATTG
GTCATTCCCTGCCCCAGATTTCTTAAAGTTTGATATGTATAGAATATAATTGAAGGAGGTATACACATATTGATG
TTGTTTTGATTATCTATGTTATTGAATCTTTTAAATCTGGTCACAAATTTGATGCTGAGGGGGATTATTCAAG
GGACTAGGATGAATAAATAAGAACTCAGTTGTTCTTTGTCATACTACTATTCTTTCTGCTCTCCAGAATCTCA
GGGCACTGAGGGTAGGTCTGACAAATAAGGCCTGCTGTGCGAATATAGCCTTTCTGAAATGTACCAGGATGGTTT

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FIGURE 6153B

CTGCTTAGAGACACTTAGGTCCAGCCTGTTCACTGACCTCAGGTATCAATTCATCTATTCAACAGATATTTA
TTGTGTTATTACTATGAGTCAGGCTCTGTTTATTGTTTCAATTCTTTACACCAAAGTATGAACTGGAGAGGGTAC
CTCAGTTATAAGGAGTCTGAGAATATTGGCCCTTTCTAACCTATGTGCATAATTAAAACCAGCTTCATTTGTTGC
TCCGAGAGTGTTTCTCCAAGGTTTTCTATCTTCAAAACCAACTAAGTTATGAAAGTAGAGAGATCTGCCCTGTGT
TATCCAGTTATGAGATAAAAAATGAATATAAGAGTGCTTGTCATTATAAAAGTTTCCTTTTTTATTCTCTCAAGC
CACCAGCTGCCAGCCACCAGCAGCCAGCTGCCAGCCTAGCTTTTTTTTTTTTTTTTTTTTTTTAGCACTTAGTAT
TTAGCATTTATTAACAGGTACTCTAAGAATGATGAAGCATTGTTTTTAATCTTAAGACTATGAAGGTTTTCTTA
GTTCTTCTGCTTTTGCAATTGTGTTTGTGAAATTTGAATACTTGCAGGCTTTGTATGTGAATAATTCTAGCGGGG
GACCTGGGAGATAATTCCTACGGGGAATTCTTAAACTGTGCTCAACTATTAAATGAATGAGCTTTC

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FIGURE 6154

MGNWAVNEGLSIFVILVWLGLNVFLFWYYRVYDIPPKFFYTRKLLGSALALARAPAAACLNFNCLILLPVCRL
LSFLRGSSACCSTRVRRQLDRNLTFHKMVAWMIALHSAHTIAHLFNVEWCVNARVNNSDPYSVALSELGDRQNE
SYLNFARKRIKNPEGGLYLAVTLLAGITGVVITLCLILIITSSTKTIRRSYFEVFWYTHHLFVIFFIGLAIHGAE
RIVRGQTAE SLAVHNITVCEQKISEWGKIKECPIQFAGNPPMTWKWIVGPMFLYLCERLVRFWRSQQKVITKV
VTHPFKTIELQMKKKGFKMEVGQYIFVKCPKVSKLEWHPFTLTSAPEEDFFSIHIRIVGDWTEGLFNACGCDKQE
FQDAWKLPKIAVDGPFGTASEDVFSYEVVMLVGAGIGVTPFASILKSVWYKYCNNATNLKLKKIYFYWLCRDTHA
FEWFADLLQLLESQMQRNNAFLSYNIYLTGWDESQANHFAVHHDEEKDVITGLKQKTLYGRPNWDNEFKTIAS
QHPNTRIGVFLCGPEALAETLSKQISNSSESGPRGVHFIENKENF

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FIGURE 6155

AAAACACCAATGGCGGATGACGCCGGTGCAGCGAGGAGGGTCCGGAGGCCCTGGTGGCCCTGGGATGGGGAACC
GCGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTTCGCGGCCGTGGACGGGGCCGGGGCCGAG
GCCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCGTCACCAAGTTGGGCCGCTTGGTCAAGG
ACATGAAGATCAAGTCCCTGGAGGAGATATATCTCTTCTCCCTGCCCATTAAGGAATCAGAGATCATTGACTTTT
GCTTGGGGGCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGATCCGTGCCGGCCAGCGCA
CCAGGTTCAAGGCGTTTGTGCTATCGGGGACTACAATGGCCACGTCCGTCTGGGTGTTAAGTGTTCGAAGGAGG
TGGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATTGTCCCCGTGCGCAGAGGCTACTGGAGGA
ACAAGATCGGCAAGCCCCACACCGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCC
CTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTTATGATGGCTGGTATCGATGACT
GCTACACCTCAGCCCGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGA
CCTACAGCTACCTGACCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCATGACC
ACCTCGTCAAGACCCACACCAGAGTCTCCGTGCAGCGGACTCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTT
ACACAAGAAAAATAAAGTGAATTAAGCGTG

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FIGURE 6156

MPVTKLGR LVKDMKIKSLEEIYLFSLPIKESIIDFCLGASLKDEV LKIMPVQKQIRAGQRT RFKAFVAIGDYN
HVGLGVKCSKEVATAIRGAIILAKLSIVPVRGYWRNKIGKPHTVPCKVTGR CGSVLVRLIPAPRGTGIVSAPVP
KKLLMMAGIDDCYTSARGCTATLGNFAKATFD AISKTYSYLTPDLWKETVFTKSPYQEFTDHLVKTHTRVSVQRT
QAPAVATT

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FIGURE 6157

GAACATCCAGTCATGGATAAAAAATGAGCTGGTTTCAAGGCCAACTGGCCGAGCAGGCTGAGCGATATGATGAC
ATGGCAGCCTGCATGAAGTCTGTAAGTGAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTT
GCTTATAAAAAATGTTTTAGGAGCCCCGTAGGTCATCTTGGAGGGTTCGTCTCAAGTATTGAACAAAAGACGGAAGGT
GCTGAGAAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAGTTGATACGGAGCTAAGAGATATCTGCAATGAT
GTACTGTTTCTTTTGGAAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAGTCTTCTCTTTGAAAATG
AAAGGAGATTACTACCATTACTTGGCAGAGGTTGCCACTGGTGATGACAAGAAAGGGATTGTGGATCAGTCACAA
CAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGTCTGGCC
CTTAACCTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTT
GATGAAGCCATTGCTGAACTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATTACTG
AGAGACAACCTTGACATTGTGGACATCAGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAATTAA
CCGGCCTTCCAACCTTTGTGTGCCTCATTCTAAAATTTACACAGTAGACCATTGTGTCATCCATGCTGTCCCACAA
AGTTTTTTATTTACGATTTATGACAGGTTTATGTTACTTCTATTTGAATTTCTATGTTTCCCATGTGGTTTTTCAT
GTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTACCTGTTTTTCATCTTGAGGTGGCCAATATGGG
GATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCACAAGGGCCAGG
GTAAACTGCTTCCCTGTCCAAGCAAAGAAAAGTGCCTACATATTGGTTTGTCTGGTGGGGAATAAAAGGGATC
ATTGGTTCCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTTTGGAGCACTTACAAGGCTGTGGTAGAAACA
TACCCCATGGATACCACATATTAAACCATGTATATCTGTGGAATACTCAATCTCAATGTGCACACCTTTGACTAC
AACTGCAGAAGTGTTCCTTTAGACAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTTACATTCC
ATTATTTGTAAAGTTACCTGCTGTAGCTTTTATTATTTTGGTACACTCATTTTATTTGTATCTAAATGTTTTA
GGCAACCTAAGAACAAATGTAAAAGTAAAGATGCAGGAAAAATGAATTGCTTGGTATTCTTACTTCTATCTGTAT
CAAGCACAGCAGTAAAAACAAAACCCATTAATTTTAACTTTTTTTTTTTAGGTTTTTTTGCTTTTGTGATTTTTTT
TTGATACTTGCTTAACATGCATGTGCTGTATAACAATCCAAGCATAATTGTTAAGAACACATGTATTAAATTCAT
GTAAGTGGAAATAAAAAGTTTTATGAATGGACTTTTCAACTACTTTTCTCTACAGCTTTTTCATGTAAATTAGTCTTTT
GGTCTGAAACTTCTCTAAAGGAAATTGTACATTTTTTTGAAATTTATTCCTTATTCCTCTTGGCAGCTAATGGG
CTTTTACCAAGTTTAAACACAAAATTTATCATAACAACAAAATACTACTAATATAACTACTGTTTCCATGTCCC
GTGATCCCCCTCTCTTCCCTCCCCACCCTGAAAAAAATGAGTTCCAATTTTTTTTTGGGAGAGGGGAGATTGATTAGAA
AAAAATGTAATATGTTCCATTTAAAATTTTGGCGTATGGCATTCTTAACCTTAGGAAGCCACAATGTTCTTGGCC
CGTCATGACATTGGGTAGCATTAACTATAAGTTTTGTGCTTCCAAATCACTTTTTTGGTTTTTAAAGATTTCTTGA
TACTCTTATAGTCTGCCCTTCAATTTTATCTCTTTATTTCTATTTGTGAGGTGCACAAGATTACCTTCTTTTGTAG
CCTTCTGTCTTGTACCAACCATTTCTACTTGGTGGCCATGTACTTGGAAAAAGGCCGCATGACCTTTCTGGCTC
CACTCAGTGTCTAAGGCACCCTGCTTCTTTGCTTGCATCCACAGACTATTTCCCTCATCTATTTACTGCAGC
AAATCTCTCCTTAGTTGATGAGATTGTGTTTATCTCCCTTTAAACCCCTGCCTATCCTGAATGGTTTGTCTATTGT
CTGCCCTTAAATCCTTCTCTTTCTTCTCTCTGTTCTCTAAATAATGATGGGGCTAAGTTATACCCAAAAGCT
CACTTTACAAAATATTTCTCAGTACTTTGCAGAAAACACCAAAACAAAATGCCATTTTAAAAGAGGTATATTTT
TTCTTTTAGAATGTAAGCTCCTCAAGAGCAGGGACAATGTTTTCTGTATGTTCTGTTGTGCCTAGTACACTGTAA
ATGCTCAATAAATATTGATGATGGGAGGCA

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FIGURE 6158

GATGACATGGCAGCCTGCATGAAGTCTGTAAGTCTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTC
TCAGTTGCTTATAAAAAATGTTTTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACG
GAAGGTGCTGAGAAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAGTTGATACGGAGCTAAGAGATATCTGC
AATGATGTACTGTTTCTTTTGGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAGTCTTCTCTTTG
AAAATGAAAGGAGATTACTACCATTTGTCAGAGGTTGCCACTGGTGATGACAAGAAAGGGATTGTGGATCAG
TCACAACAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGT
CTGGCCCTTAACCTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACA
GCTTTTGATGAAGCCATTGCTGAACTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAA
TACTGAGAGACAACTTGACAATGTGGTTTTTCATGTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAG
TTACCTGTTTTTCATCTTGAGGTGGCCAATATGGGGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGT
ACTTTTGGTACATTGTGGCTTCA

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FIGURE 6159

AGCTGACACAACCAAGACGAGTCTCAGTGTCTAGGGAAGCTTGGGGTTCTGCTCCTTTTACTTCAGGCGAACCTG
AACTTTAATGCAATTTTGAAGCATGCCCTGAATAGATTCAAGTCATTATCAAGTCAAACAAAAACGGTGAAAGGT
TGCGACTATTACCAAATAGAAGACAATGAGAAGTCATACCATAACAATGACGACAACCTTCAGTCAGCAGCTGGCC
TTACTCCTCCACAGAATGCGCTTTATAACCAATCATAGCGACCAACCGCCACAAAACCTTCTCAGCAACACCAA
TGTTACTACCTGTCCCATGGATGAAAAATTGCTATCTACTGTGTTAACACATCCTACTCTGTTATTTTCATCGT
GGGACTGGTTGGGAACATAATCGCCCTCTATGTATTTCTGGGTATTCACCGTAAAAGAAATTCCATTCAAATTTA
TCTACTTAACGTAGCCATTGCAGACCTCCTACTCATCTTCTGCCTCCCTTTCCGAATAATGTATCATATTAACCA
AAACAAGTGGACACTAGGTGTGATTCTGTGCAAGGTTGTGGGAACACTGTTTTATATGAACATGTACATTAGCAT
TATTTTGCTTGGATTTCATCAGTTTGGATCGCTATATAAAAAATTAATCGGTCTATACAGCAACGGAAGGCAATAAC
AACCAAAACAAAGTATTTATGTCTGTTGTATAGTATGGATGCTTGCTCTTGGTGGATTCCCTAACTATGATTATTT
AACACTTAAGAAAGGAGGGCATAATTCCACAATGTGTTTCCATTACAGAGATAAGCATAACGCAAAAGGAGAAGC
CATTTTAACTTCATTCTTGTGGTAATGTTCTGGCTAATTTTCTTACTAATAATCCTTTCATATATTAAGATTGG
GAAGAATCTATTGAGGATTCTAAAAGGAGGTCAAAATTTCTTAATTCTGGTAAATATGCCACTACAGCTCGTAA
CTCCTTTATTGTACTTATCATTTTACTATATGTTTGTTCCTATCATGCCTTTCGATTTCATCTACATTTCTTC
ACAGCTAAATGTATCATCTTGCTACTGGAAAGAAATTGTTTCAAAAACCAATGAGATCATGCTGGTTCTCTCATC
TTTCAATAGTTGCTTAGATCCAGTCATGTATTTCTGATGTCCAGTAACATTTCGCAAAATAATGTGCCAACTTCT
TTTTAGACGATTCAAGGTGAACCAAGTAGGAGTGAAAGCACTTCAGAATTTAAACCAGGATACTCCCTGCATGA
TACATCTGTGGCAGTGAATAACAGTCTAGTTCTAAAAGTACTTGAGGTAAACATACTAAATGAATTATATAAT
GCAGCCTCTTAATCTTTGAAGAACTAAAAAATTAGGAAACAAGTTCTAGCATTTACAAAACCTCAGATCTCAAAG
CTCTGCTTGATTTGTGATATTTCAATTTGCTTAACTGTAAACCATTTCAAGGTACTATCTTTTAAATCTGTATGT
AAAATCTTTTCAAAATACATTTTAAAGCTAATACTCTTAACATAGATTATGAAGTTAAGTGAAATTTATGGCTCT
AACAGCAAAATAATTAAGTGCCATAGTTTCTCAAGTGACTAAAGTAGTTATTTAAATCAAGCACTTGATACTAA
TTTGAAGTGTGTTTAAAGTAAATGATTTGGGAAGTACAATGTGTGAGAAAATATATGTTCAATTTATCATTTTA
AAATCTTGTATAATTTGCCACTGTATTCATTTATGCCTAAATCTCTATAACAGATGAAAAGATAATTAATAAAAT
CCTAATTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6160

MRSHTITMTTTSVSSWPYSSHRMRFITNHSQPPQNF SATPNVTTCPMDEKLLSTVLTTSSVIFIVGLVGNIIA
LYVFLGIHRKRNSIQIYLLNVAIADLLIFCLPFRIMYHINQNKWTLGVILCKVVGTIFYMNMYSIILLGFISL
DRYIKINRSIQQRKAITTKQSIYVCCIVWMLALGGFLTMIILTLKKGHNSTMCFHYRDKHNAKGEAIFNFILV
MFWLIFLLIILSYIKIGKNLLRISKRRSKFPNSGKYATTARN SFIVLIIFTICFVPYHAFRFIYISSQLNVSSCY
WKEIVHKTNEIMLVLSFNSCLDPVMYFLMSSNIRKIMCQLLFRRFQGEPSRSESTSEFKPGYSLHDTSVAVKIQ
SSSKST

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FIGURE 6161

TTTCCGCGCTACCTACAGAGGGGTCCATATGGCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAAACTTTTAC
AAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCATGCAGCAGGAACCCACTT
AGGCGGCACCAATCTTGACTTCCAGATGGAAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGTTTCTGCTGGCAGCTCGTGCTGTTGTTGCCATTGAAAACCTGCTGATGTCAG
TGTTATATCCTCCGGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTGGTTAC
TGACCCCAAGGGCTGACCACCAGCCTCTCACGGAGTCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTCTGCGCTATGTGGACATTGCAACAACAAGGGAGCTCACTCAGTGGGTTTTGATGTGGTGGATGCTG
GCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTTGGACACCCATGGGAGGTCATGCCTGATCTCTACTTC
TACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGAGGAATTTAG
GGTGAATGGACTGCTCCTGCTCCTGAGTTCACTGCCACTCAGCCTGAGGTTGCAGACTTGTCTGAAGGTGTACAG
GTGCCCTCTGTGCCTATTACAGCAGTTCCCTACTGACGACTGGAGCACTCAGCCTGCCACGGAAAACCTGGTCTGCA
GCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGATAGGCTCTT
AAGCAACATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 6162

MSGALDVLQMKEEDVLKFHAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKFLAARAVVAIENPADVS
VISSGNTGQRAVLKFAAATGATPIAGHFTP GTFTNQIAAFREPRLLVVTDP RADHQPLTESSYVNLPTIALC¹NT
DSPLRYVDIATTRELTQWV

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FIGURE 6163

[illegible]

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FIGURE 6164

MMGLSNLSPGPGPSQAVPLPEGLLRQRYREEKLEERRWERLEFLQRKKAFLRHVRRRHRDHMAPYAVGREARIS
PLGDRSQNRFRCECRYCQSHRPNLGIPGESNRAPHPSSWETLVQGLSGLTSLGTNQPGPLPEAALQPQETEEK
RQERQQESKIMFORLLKQWLEEN

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FIGURE 6165

GGCACGAGGGTGGTCGGAGCGCCGACTCCCTTCTCGTCTGCGCCATTTTGGAGCTGGTGACTGTGGCCGGCTGGGA
GTAGGCGGCAGTGAGTTTCCCTGGGAGGGCAGCGCGCTTGGCGCTTCTCCCTCCCCCGATCTGCCTCCAGTCT
CGGACTTGGTTGTTGCGCGCTCCGGCTCCGGCTGAGCTGGGAGAGTTGGAGGAGGTGGCGGGCGGGCAGAGGTGAT
GTCTGGGAGCCCTTCCCTTGACAGCCCGGGCCGAGAAGAGTCCCTGCAGGAAGCATCACCCAGGCTGGCAGATCAT
GGTAGCAGCAGCGGGGGTGGCTGGGAAGTGAAACGGAGCCAGCGGCTGAGGAGGGGCCCCAGCAGCCCCCGAAGG
CCCTATCAGGACATGGAGTATGAAAGACGTGGTGGTCTGTTGACAGGACTGGCCGCTATGGAGCCACTGACCGC
TCGCAGGATGATGGTGGGGAGAACCAGCGCCGAGACCAGCTACCGGGACATGGACTACCGTTTCATATCCTCGC
GAGTATGGCAGCCAGGAGGGCAAGCATGACTATGACGACTCATCTGAGGAGCAGAGTGGGAGGATTCTTACGAG
GCCTCCCCGGGCTCCGAGACTCAGCGTAGGCGGGCGGGCGGCACAGGCACAGCCCCACCGGCCGCCAGGCTTC
CCCCGAGACGGCGACTATCGGGACCAGGACTATCGGACCAGCAAGGGGAGGAGGAGGAGGAGGAGGAGGATGAG
GAGGAGGAGGAGAAGGCCAGTAACATCGTCATGCTGAGGATGCTGCCACAGGCAGCCACTGAGGATGACATCCGT
GGCCAGCTGCGCTCGCACGGCGTGCAAGCACGGGAGGTTTCGGCTGATGCGGAACAAATCTTCAGGTGAGAGCCGG
GGCTTCGCCCTTCGTCGAGTTTAGTCACTTGACAGGACGCTACACGATGGATGGAAGCCAATCAGCACTCCCTCAAC
ATCTTGGGCCAGAAGGTGTCGATGCACTACAGTGACCCCAAGCCCAAGATCAATGAGGACTGGCTGTGCAATAAG
TGTGGCTCCAGAACTTCAAACGCCGAGAGAAGTGCTTCAAATGTGGCGTGCCCAAGTCAGAGGCAGAGCAGAAG
CTGCCCTCGGCACGAGGCTGGATCAGCAGACACTGCCACTGGGTGGCCGGGAGCTGAGCCAGGGCCTGCTTCCC
CTGCCGAGCCCTACCAGGCCCAGGGAGTCTTGGCCTCCCAAGCCCTGTACAGGGCTCGGAGCCAAGCTCAGAG
AACGCCAATGACACCATCATTTTGGCGAACCTGAACCCACACAGCACCATGGATTCCATCTTGGGGGCCCTGGCA
CCCTACGCGGTGCTGTCTCTCTCAACGTGCGCGTCATAAAGGACAAGCAGACCCAACTGAACCGCGGCTTTGCC
TTCATCCAGCTCTCCACCATCGTGGAGGCAGCCAGCTGCTGCAGATCTTGCAGGCCCTGCACCCACCACTCACT
ATCGAGGGCAAGACCATCAATGTTGAGTTTGCCAAGGGTTCTAAGAGGGACATGGCCTCCAATGAAGGCAGTCGC
ATCAGTGTGCTGCTGTGTGGCCAGCACTGCCATTGCTGCGGCCAGTGGGCCATCTCACAGGCCCTCCCAAGGTGGG
GAGGGTACTTGGGCCACCTCCGAGGAGCCGCCGGTGCAGTACAGCTACTACCAACAGGATGAGGGCTATGGCAAC
AGCCAGGGGACAGAGTCTTCCCTCTATGCCCATGGCTACCTCAAGGGCACCAAGGGCCCTGGCATCACTGGAACC
AAAGGGGATCCCACTGGAGCAGGTCCCGAGGCCCTCCCTAGAGCTTGGGGCCGACTCTGTGTGATGAGGCTTTT
TCTCGCGCCAGCCTGGTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GCCAACAGCCAGTCTGATATACCATCATGTACCCGCTGTGCTCAAATCTGAGCTCCAGAGCCCTACCCATCCTAGT
TCTGCTCTCCACCGGCTACCAGCCCCACTGCCAGGAATCCTACAGCCAGTACCCTGTTCCCGCGCTCTCTACC
TACCAGTACGATGAGACCTCCGGCTACTACTATGACCCCCAGACCGGCCTCTACTATGACCCCACTCCAGTAT
TACTACAATGCTCAGAGCCAGCAGTACCTGTACTGGGATGGGGAGAGGCGGACCTATGTTCCCGCCCTGGAGCAG
TCGGCCGACGGACATAAGGAGACAGGGGCACCCTCGAAGGAGGGCAAAGAGAAGAAGGAGAAGCACAAAGCCAAG
ACAGCTCAACAGATTGCCAAGGACATGGAACGCTGGGCGCGCAGTCTCAACAAACAAAAAGAAACTTCAAAAAAT
AGCTTCCAGCCTATCAGCTCCCTGCGAGATGACGAGAGGCGGGAGTACGCCACTGCAGATGCTGGCTATGCCATC
CTCGAGAAGAAGGGAGCACTAGCCGAGAGACAGCACACCAGCATGGATCTCCCGAAATTGGCCAGTGACGACCGC
CCAAGCCCTCCGCGAGGACTGGTGGCAGCCTACAGCGGGGAGAGTGACAGTGAGGAGGAGCAGGAGCGTGGGGGC
CCTGAGCGGGAGGAGAAGCTCACCGACTGGCAGAAGCTGGCCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GAGGCGCTCATCCGGCACCAGCAGCTCTCAGGGCTCCACAAGCAAAACCTTGAGATTCACCGGCGAGCCCCACTTG
TCAGAAAACGAGCTAGAAGCACTAGAGAAGAATGACATGGAGCAAATGAAGTACCGGGACCGTGCACTGAACGC
AGAGAAAAGTATGGCATCCCCGAGCCGCCAGAGCCCAAGAGGAGGAAGTACGGCGGCATATCCACAGCCTCTGTA
GACTTCGAGCAGCCTACTCGGGACGGGCTGGGCAGTGACAACATTGGCAGTCGGATGCTGCAGGCCATGGGCTGG
AAAGAGGGCAGCGCCTGGGCGCAAGAAGCAGGGCATTGTAACGCCTATCGAGGCCCAAACACGGGTGCGGGGC
TCCGGCTGGGTGCACGGGGCAGCTCCTACGGGGTCACCTCAACCGAGTCTTACAAGGAGACACTGCACAAGACA
ATGGTGACCCGCTTCAACGAGGCCCAGTGAGCAGCTTCAAGAGCAACTTCTCCACATGTTGGGTGTCCATCTGG
GGCAGGGAAGGACAGAGTGTGGATGGCTGGGACGGGGCCTTGCTCTTGTGCGCCAGCCCACTCCCCAGCCAGAG
AGGGCTTGACCAAATCAAATTGAGGTGGTGACTTTTGTGGAAATTGGGCTGGGATCACGTCTGTTTTGTAAT
AAAAGCTGAAAAGTCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6166

MEYERRGGRDRTGRYGATDRSQDDGGENRSRDHDYRDMDYRSYPREYGSQEGKHDYDDSSSEEQSAEDSYEASPG
SETQRRRRRRHRHSP TGPPGFPRDGDYRDQDYRTEQEEEEEEEEEEEEKASNIVMLRMLPQAATEDDIRGQLQ
SHGVQAREVRLMRNKSSGQSRGFAFVEFSLQDATRWMEANQHSLNILGQKVMHYSDPKPKINEDWLCNKCQVQ
NFKRREKCFKCGVPKSEAEQKLPLGTRLDQQTLPPLGGRELSQGLLPLPQPYQAQGVLASQALSQGSEPSSENAND
TIILRNLPNSTMDSILGALAPYAVLSSSNVRVIKDKQTQLNRGFAFIQLSTIVEAAQLLQILQALHPPLTIDGK
TINVEFAKGSKRDMASNEGSRIASAASVASTAIAAAQWAI SQASQGEGTWTATSEPPVDYSYYQQDEGYGNSQGT
ESSLYAHGYLKGTGPGITGTGKDPTGAGPEASLEPGADSVSMQAFSRAQPGAAPGIYQQSAEASSSQGTAANSQ
SYTIMSPAVLKSELQSPTHPSSALPPATSPTAQESYSQYPVPDVSTYQYDETSYGYDDPQTGLYYDPNSQYYNA
QSQQYLYWDGERRTYVPALEQSADGHKETGAPSKGKKEKKEKHKTKTAQQIAKDMERWARSLNKQKENFKNSFQP
ISSLRDDERRESATADAGYAILEKKGALAERQHTSMDLPKLASDDRPSPPRGLVAAYSGESDSEEEQERGGERE
EKLTDWQKLACLLCRRQFP SKEALIRHQQLSGLHKQNL EIHRRHLSENELEALEKNDMEQMKYRDRAAERREKY
GIPEPPEPKRRKYGGISTASVD FEQPTRDGLGSDNIGSRMLQAMGWKEGSGLGRRKKQGI VTP IEAQTRVRGSGLG
ARGSSYGVSTESYKETLHKTMVTRFNEAQ

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FIGURE 6167

TGGCGGCGGCGGACCCGGGGAAACGGGCATTGATCTCCAGCTCGCCGCTGTCCAAGAAACGTCGCGTGTCCGGGC
CTGATCCAAAGCCGGGTCTAACTGCTCCCCTGCCAGTCCGTGTTGTCCGAAGTGCCCTCGGTGCCAACCAACG
GAATGGCCAAGAACGGCAGTGAAGCAGACATAGACGAGGGCCTTTACTCCCAGCTGTATGTGTTGGGCCATG
AGGCAATGAAGCGGCTCCAGACATCCAGTGTCTGGTATCAGGCCTGCGGGGCTGGGCGTGGAGATCGCTAAGA
ACATCATCCTTGGTGGGGTCAAGGCTGTTACCCTACATGACCAGGGCACTGCCAGTGGGCTGATCTTCTCCTCC
AGTTCTACCTGCGGGAGGAGGACATCGGTAAAAACCGGGCCGAGGTATCACAGCCCCGCCTCGCTGAGCTCAACA
GCTATGTGCCTGTCACTGCCTACACTGGACCCCTCGTTGAGGACTTCCTTAGTGGTTTCCAGGTGGTGGTGCTCA
CCAACACCCCCCTGGAGGACCAGCTGCGAGTGGGTGAGTTCTGTACAAACCGTGGCATCAAGCTGGTGGTGGCAG
GCACGCGGGGCTGTTTGGGCAGCTCTTCTGTGACTTTGGAGAGGAAATGATCCTCACAGATTCCAATGGGGAGC
AGCCACTCAGTGCTATGGTTTCTATGGTTACCAAGGACAACCCCGGTGTGGTTACCTGCCTGGATGAGGCCCGAC
ACGGGTTTGAGAGCGGGGACTTTGTCTCCTTTTCAGAAAGTACAGGGCATGGTTGAACCTCAACGGAAATCAGCCCA
TGGAGATCAAAGTCTTGGGTCCTTATACCTTTAGCATCTGTGACACCTCCAACCTTCTCCGACTACATCCGTGGAG
GCATCGTCAGTCAGGTCAAAGTACCTAAGAAGATTAGCTTTAAATCCTTGGTGGCCTCACTGGCAGAACCTGACT
TTGTGGTGACGGACTTCGCCAAGTTTCTCGCCCTGCCAGCTGCACATTGGCTTCCAGGCCCTGCACCAGTTCT
GTGCTCAGCATGGCCGGCCACCTCGGCCCGCAATGAGGAGGATGCAGCAGAACTGGTAGCCTTAGCACAGGCTG
TGAATGCTCAGCCCTGCCAGCAGTGCAGCAAAATAACCTGGACGAGGACCTCATCCGGAAGCTGGCATATGTGG
CTGCTGGGATCTGGCACCATAAACGCCTTCATTGGGGGCTGGCTGCCAGGAAGTCATGAAGGCTGCTCCG
GGAAGTTCAAGTCCCATGCACTGCAGTGGCTATACTTTGATGCCCTTGAGTGTCTCCTCAGGACAAAGAGGTCTCA
CAGAGGACAAGTGCTCCAGCGCCAGAACCGTTATGACGGGCAAGTGGCTGTGTTGGCTCAGACCTGCAAGAGA
AGCTGGGCAAGCAGAAGTATTTCTTGGTGGGTGCGGGGCCATTGGCTGTGAGCTGCTCAAGAACTTGGCCATGA
TTGGGCTGGGCTGCGGGGAGGGTGGAGAAATCATCGTTACAGACATGGACACCATTGAGAAGTCAAATCTGAATC
GACAGTTTCTTTTCCGGCCCTGGGATGTACGAAGTTAAAGTCTGACACGGCTGCTGCAGCTGTGCGCCAAATGA
ATCCACATATCCGGGTGACAAGCCACCAGAACCCTGTGGTCTGACACGGAGCGCATCTATGATGACGATTTTT
TCCAAAACCTAGATGGCGTGGCCAATGCCCTGGACAACGTGGATGCCCGCATGTACATGGACCGCCGCTGTGTCT
ACTACCGGAAGCCACTGCTGGAGTCAGGCACACTGGGCACCAAGGCAATGTGCAGGTGGTGATCCCTTCTCTGA
CAGAGTCGTACAGTTCCAGCCAGGACCCACCTGAGAAGTCCATCCCCTGTGTACCTGAGAAGTCTCCCTAATG
CCATCGAGCACACCCTGCAGTGGGCTCGGGATGAGTTTGAAGGCCTCTTCAAGCAGCCAGCAGAAATGTCAACC
AGTACCTCACAGACCCCAAGTTTGTGGAGCGAACACTGCGGCTGGCAGGCACTCAGCCCTGGAGGTGCTGGAGG
CTGTGCAGCGCAGCCTGGTGTGCAGCGACCACAGACCTGGGCTGACTGCGTGACCTGGGCTGCCACCCTGGC
ACACCCAGTACTCGAACAACATCCGGCAGCTGCTGCACAACCTTCCCTCCTGACCAGCTCACAAGCTCAGGAGCGC
CGTTCTGGTCTGGGCCCAAACGCTGTCCACACCCGCTCACCTTTGATGTCAACAATCCCTGCATCTGGACTATG
TGATGGCTGCTGCCAACCTGTTTGGCCAGACCTACGGGCTGACAGGCTCTCAGGACCGAGCTGCTGTGGCCACAT
TCCTGCAGTCTGTGCAGGTCCCCGAATTCACCCCAAGTCTGGCGTCAAGATCCATGTTTCTGACCAGGAGCTGC
AGAGCGCCAATGCCTCTGTTGATGACAGTCGTCTAGAGGAGCTCAAAGCCACTCTGCCCAGCCCAGACAAGCTCC
CTGGATTCAAGATGTACCCATTGACTTTGAGAAGGATGATGACAGCAACTTTCATATGGATTTTCATCGTGGCTG
CATCCAACCTCCGGGCAGAAAATATGACATTCTTCTGCAGACCGGCACAAGAGCAAGCTGATTGCAGGGAAGA
TCATCCCAGCCATTGCCACGACCACAGCAGCCGTGGTTGGCCTTGTGTGTCTGGAGCTGTACAAGGTTGTGCAGG
GGCACCGACAGCTTGACTCCTACAAGAATGGTTTCTCAACTTGGCCCTGCCTTTCTTTGGTTTCTCTGAACCCC
TTGCCGACCCACGTCAACAGTACTATAACCAAGAGTGGACATTGTGGGATCGCTTTGAGGTACAAGGGCTGCAGC
CTAATGGTGAGGAGATGACCTCAAACAGTTCCTCGACTATTTTAAAGACAGAGCACAAATTAGAGATCACCATGC
TGTCCCAGGGCGTGTCCATGCTCTATTCTTCTTCATGCCAGCTGCCAAGCTCAAGGAACGGTTGGATCAGCCGA
TGACAGAGATTGTGAGCCGTGTGTGCAAGCGAAAGCTGGGCCGCCACGTGCGGGCGCTGGTGTGAGCTGTGCT
GTAACGACGAGAGCGGCGAGGATGTGAGGTTCCCTATGTCCGATACACCATCCGCTGACCCCGTCTGCTCCTCT
AGGCTGGCCCCCTTGTCCACCCCTCTCCACACCCCTTCCAGCCAGGGTTCCTATTGGCTTCTGGCAGTGGCCCA
ACTAGCCAAGTCTGGTGTTCCTCATCATCCCTTACCTGAACCCCTCTGCCACTGCCTTCTACCTTGTGTTGAA
ACCTGAATCCTAATAAAGAATTAATAACTCCCAAAAAAAAAA

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FIGURE 6168

MSSSPLSKRRVSGPDPKPGSNCSQAQSVLSEVP SVP TNGMAKNGSEAD IDEGLYSRQLYVLGHEAMKRLQTSSV
LVSGLRGLGVEIAKNIILGGVKAVTLHDQGT AQWADLSSQFYLR EEDIGKNRAEVSQPR LAELNSYVPVTAYTGP
LVEDFLSGFQVVVLNTPTLEDQLRVGEFCHNRGIKLVVAGTRGLFGQLFCDFGEEMILTDSNGEQPLSAMVSMVT
KDNPGVVTCLDEARHGFE SGDFVSFSEVQGMVELNGNQPM EIKVLGPYTFSICDTSNFS DYIRGGIVSQKVPKK
ISFKSLVASLAEPDFVVTDFAKFSRPAQLHIGFQALHQFCAQHGRPPRPRNEEDAAELVALAQAVNARALPAVQQ
NNLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEV MKACSGKFMPIMQWLYFDALECLPDQKEVLTEDKCLQRQNR
YDGGQVAVFGSDLQEKLGKQKYFLVGAGAI GCELLKNFAMIGLGC GEGGEIIVTDMDTIEKSNLNRQFLFRPWDVT
KLKSDTAAAVRQMNPHIRVTSHQNRVGP DTERIYDDDFQNL DGVANALDNVDARMYMDRRCVYYRKPLLES GT
LGTKGNVQVVIPFLTESYSSSQDPPEKSIPIC TLKNFPNAIEHTLQWARDEFEG LFKQPAENVNQYLTD PKFVER
TLRLAGTQPLEVLEAVQRSVLQRPQTWADCV TWACHHWHTQYSNNIRQLLHNFPPDQLTSSGAPFWSGPKRCPH
PLTFDVNNPLHLDYVMAAANLFAQTYGLTGSQDRAAVATFLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSR
LEELKATLPSPDKLP GFKMYPIDFEKDDDSNFHMD FIVAASNLRAENYDIPSADRHKSKLIAGKII PAIATTTAA
VVGLVCLELYKVVQGHRQLDSYKNGFLNLALFFFGFSEPLAAPRHQYYNQEWTLWDRFEVQGLQPNGEEMTLKQF
LDYFKTEHKLEITMLSQGVSMLYSFFMPAAKLKERLDQPMTEIVSRVSKRKLGRHVRALVLELCCNDESGEDVEV
PYVRYTIR

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FIGURE 6169

CAGCTGCTGCTGCGGCGGCTGTGGCGGCGGCAGCGCGGTGACTGAGGATAGAGAGCCACAGCACGAGGAGCTGC
CAGGCCTGGACAGCCAGTGGCGCCAGATAGAAAACGGCGAGAGTGGGCGAGAACGTCCACTGCGGGCCGGCGAAA
GCTGGTTCCCTTGTGGAGAAGCACTGGTATAAGCAGTGGGAGGCATACGTGCAGGGAGGGGACCAGGACTCCAGCA
CCTTCCCTGGCTGCATCAACAATGCCACACTCTTTCAAGATGAGATAAACTGGCGCCTCAAGGAGGGACTGGTGG
AAGGCGAGGATTATGTGCTGCTCCCAGCAGCTGCTTGGCATTACCTGGTCAGCTGGTATGGTCTAGAGCATGGCC
AGCCACCCATTGAACGCAAGGTATAGAGCTGCCAACATCCAGAAGGTGGAAGTGTACCCAGTAGAACTGCTGC
TTGTCCGGCACAATGATTTGGGCAAATCTCACACTGTTTCAAGTTCAGCCATACCGATTCTATTGGCCTAGTATTGC
GCACAGCTCGGGAGCGGTTTCTGGTGGAGCCCCAGGAAGACACTCGGCTTTGGGCCAAGAACTCAGAAGGCTCTT
TGGATAGGTTGTATGACACACACATCACGGTTCTCGATGCGGCCCTTGAGACTGGGCAGTTGATCATCATGGAGA
CCCAGAAAGATGGCACTTGGCCAGCGCACAGCTGCATGTCATGAACAACAACATGTCGGAAGAGGATGAGG
ACTTCAAGGGTCAGCCAGGCATCTGTGGCCTCACCAATCTGGGCAACACGTGCTTCATGAAGTGGGCCCTGCAGT
GCCTCAGCAATGTGCCACAGCTCACCGAGTACTTCTCAACAACCTGTACCTGGAGGAGCTCAACTTCCGCAACC
CACTGGGCATGAAGGGTGAGATCGCAGAGGCCTATGCAGACCTGGTGAAGCAGGCGTGGTCTGGCCACCACCGCT
CCATTGTGCCACATGTGTTCAAGAACAAGGTTGGCCATTTTGCATCCCAATTTCTGGGCTACCAGCAGCATGACT
CTCAGGAGCTGCTGTCAATTCCTCCTGGACGGGCTGCATGAGGACCTTAATCGGGTGAAGAAGAAGGAGTATGTGG
AGCTGTGCGATGCTGCTGGGCGACCGGATCAGGAGGTGGCACAGGAGGCATGGCAAAACCACAAACGGCGGAACG
ATTCTGTGATCGTGGACACTTTCCACGGCCTCTTCAAGTCCACGCTGGTGTGCCCCGATTGTGGCAATGTATCTG
TGACCTTCGACCCCTTCTGCTACCTCAGTGTTCCACTGCCTATCAGCCACAAGAGGGTCTTGAGGCTCTCTTTA
TCCCCATGGATCCGCGCCGCAAGCCAGAGCAGCACC GGCTCGTGGTCCCCAAGAAAGGCAAGATCTCGGATCTAT
GTGTGGCTCTGTCCAAACACACGGGCATCTCGCCAGAGAGGATGATGGTGGCTGATGTCTTCAGTCACCGCTTCT
ATAAGCTCTATCAGCTAGAGGAGCCTCTGAGCAGCATCTTGGACCGTGATGATATCTTCGTCTATGAGGTGTCAG
GTCGATTGAGGCCATTGAGGGCTCAAGAGAGGACATCGTGGTTCTGTCTACCTGCGGGAGCGCACCCCTGCCC
GTGACTACAACAACCTCTACTACGGCCTGATGCTTTTTGGACACCCCTCCTGGTATCAGTGCCCCGGGACCGCT
TCACCTGGGAGGGCCTGTATAACGTCTGATGTACCGGCTCTCAGCTACGTGACCAACCCAACTCAGATGATG
AGGACGATGGGGATGAGAAAGAAGATGACGAGGAGGATAAAGATGACGTCCCTGGGCCCTCAACTGGGGGCAGCC
TCCGAGACCCCTGAGCCAGAGCAGGCTGGGCCCAGCTCTGGAGTCACGAACAGGTGCCCTTCTCTCTGGACAATT
GCCTTGGCACATCTCAGTGGCCCCCAAGGCGACGCAAGCAGCTGTTTACCCTGCAGACGGTGAACCTCCAATG
GGACCAGCGACCGCACAACTCCCTGAAGAAGTCCATGCCAGCCGTACATTGCTATCGACTGGGAGCCAGAGA
TGAAGAAGCGTTACTATGACGAGGTAGAGGCTGAGGGCTACGTGAAGCATGACTGCGTGGGTACGTGATGAAGA
AGGCTCCCGTGCAGGCTGCAGGAGTGCATTGAGCTCTTACCAGCTGTGGAGACCCTGGAGAAGGAAAACCCCTGGT
ACTGCCCTTCTGCAAGCAGCACCAAGCTGGCAACCAAGAAGCTGGACCTGTGGATGCTGCCGGAGATTCTCATCA
TCCACCTGAAACGCTTTTCTACACCAAGTTCTCCCGAGAGAAGCTGGACACCCTCGTGGAGTTTCTATCCGGG
ACCTGGACTTCTCTGAGTTTGTATCCAGCCACAGAATGAGTCGAATCCGGAGCTGTACAAATATGACCTCATCG
CGGTTTCCAACCATTATGGGGCATGCGTGATGGACACTACACAACATTTGCCTGCAACAAGGACAGCGGCCAGT
GGCACTACTTTGATGACAACAGCGTCTCCCTGTCAATGAGAATCAGATCGAGTCCAAGGCAGCCTATGTCTCT
TCTACCAACGCCAGGACGTGGCGCGACGCCTGCTGTCCCCGGCCGGCTCATCTGGCGCCCCAGCCTCCCTGCCT
GCAGCTCCCCACCCAGCTCTGAGTTTATGGATGTTAATTGAGAGCCCTGGGTCTGCCACAGAAAAAAAAAAAAA
AAAGCCCTCTCTGCAATCTCGCTTCTCGTGTCCGCCCCGCTTCTCTTATTCTGTGTTAGGTGCCCCCGCCAGGCAT
TGCAGGCTTAGTCTGGCTACTGTTCTCTGTGCCGCTGCATCGCTCTCTCCGGGAAAGAACAGGTCGTGTCTC
CTCCTAGCAGTGCAGCGCCCCGCTGTGTTTGCCTTCCAGCAGTGACCCTCCCTTCTAGTCTTTATTTATGGTCCG
TGCCCTTCCCTCTCCTCAGCCAGAGTGTTCTGCGTGGGTGGTGTGGGGTTTACCTGAACACAGAGTGTATTT
TCTTATTGAGGCCCTGTACCTTCTGCTGTGTGTGTATATATAAAGCACCAGTCTGCTCCCC

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FIGURE 6170

TGACCCAATAAGGGTGGAAAGGCTGAGTCCCGCAGAGCCAATAACGAGAGTCCGAGAGGCGACGGAGGCGGACTCT
GTGAGGAAACAAGAAGAGAGGCCCAAGATGGAGACGGCGGGCGGTGTAGCGGCGTGACAGTGAAGCTGAGACCTT
GGCACTCAAGAGTGAGACAAGCAACAGGAGGGCCTGAGCAGAGAAGGAAGTGGAAAGGACTTCAGATGTGAGCAGG
ATCTCTTGAGCTGTGCTGTGAAAATTAGGCTGCAGGGGGCGACAGGAGCCTGGACTTTGAATTTTATTTTGTCCC
CTGCCACTTTGCTTCTAGACTATCATTATTGGACCTCTGAATTCCTGTCTGCCTTCTGTAGGAGCCCCATGGCA
CCTGCCCAGCCCCACCTCAGCCCATCTTGACAAAATCTAAGGCTCCATGGAGCCACCACGGGGCCCCCCTGCCAA
TGGGGCCGAGCCATCCCGGGCAGTGGGCACCGTCAAAGTATACCTGCCCAACAAGCAACGCACGGTGGTGACTGT
CCGGGATGGCATGAGTGTCTACGACTCTCTAGACAAGGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGT
GGTCTACCGACTCATCAAGGGACGAAAGACGGTCACTGCCTGGGACACAGCCATTGCTCCCTGGATGGCGAGGA
GCTCATTGTGAGGTCTTGAAGATGTCCCGTGACCATGCACAATTTGTACGGAAGACCTTCTTCAGCCTGGC
GTTCTGTGACTTCTGCCTTAAAGTTTCTGTTCCATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTTCCACCAGCA
TTGTTCCCTCCAAGGTCCCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGCCCTCAAGGTTCTACCACAG
TGTCAGGATTTGTCCGGAGGCTCCAGACAGCATGAGGCTCCCTCGAACCGCCCCCTGAATGAGTTGCTAACCCC
CCAGGGTCCCCCGCCAGCCAGCACTGTGACCCGGAGCACTTCCCCTTCCCTGCCCCAGCCAATGCCCCCTT
ACAGCGCATCCGCTCCAGTCCACTCCCAACGTCCATATGGTCAGCACCACGGCCCCCATGGACTCCAACCTCAT
CCAGCTCACTGGCCAGAGTTTCAGCACTGATGCTGCCGGTAGTAGAGGAGGTAGTGATGGAACCCCCCGGGGAG
CCCCAGCCCAGCCAGCGTGTCTCGGGGAGGAAGTCCCAACATTCCAAGTCACCAGCAGAGCAGCGGAGCGGAA
GTCTTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGGACTCAGGCTATTACTGGGAGGTACCACC
CAGTGAGGTGCAGCTGCTGAAGAGGATCGGGACGGGCTCGTTTGGCACCGTGTTCGAGGGCGGTGGCATGGCGA
TGTGGCCGTGAAGGTGCTCAAGGTGTCCAGCCACAGCTGAGCAGGCCAGGCTTTCAAGAATGAGATGCAGGT
GCTCAGGAAGACGCGACATGTCAACATCTTGCTGTTTATGGGCTTCATGACCCGGCCGGGATTGGCCATCATCAC
ACAGTGGTGTGAGGGCTCCAGCCTCTACCATCACCTGCATGTGGCCGACACACGCTTCGACATGGTCCAGCTCAT
CGACGTGGCCCGGCAGACTGCCAGGGCATGGACTACCTCCATGCCAAGAACATCATCCACCGAGATCTCAAGTC
TAACAACATCTTCTACATGAGGGGCTCACGGTGAAGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATG
GAGCGGGGCCAGCCCTTGGAGCAGCCCTCAGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATGCAGGA
CCCGAACCCCTACAGCTTCCAGTCAGACGTCTATGCCTACGGGGTTGTGCTCTACGAGCTTATGACTGGCTCACT
GCCTTACAGCCACATTGGCTGCCGTGACCAGATTATCTTTATGGTGGGCGGTGGCTATCTGTCCCCGGACCTCAG
CAAAATCTCCAGCAACTGCCCAAGGCCATGCGGCGCCTGCTGTCTGACTGCCTCAAGTTCCAGCGGGAGGAGCG
GCCCCCTTCCCCAGATCCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGTGCCTC
GGAACCTCTTGCACCGCACCCAGGCCGATGAGTTGCCTGCCTGCCTACTCAGCGCAGCCCGCCTTGTGCCTTA
GGCCCCGCCAAGCCACCAGGGAGCCAATCTCAGCCCTCCAGCCAAGGAGCCTTGGCCACCAGCCAATCAATGT
TCGTCTCTGCCCTGATGCTGCCTCAGGATCCCCCATTTCCCAACCTGGGAGATGAGGGGGTCCCCATGTGCTTTT
CCAGTTCTTCTGGAATTGGGGGACCCCCGCCAAAGACTGAGCCCCCTGTCTCCTCCATCATTGGTTTCTCTTG
GCTTTGGGGATACTTCTAAATTTTGGGAGCTCCTCCATCTCCAATGGCTGGGATTTGTGGCAGGGATTCCACTCA
GAACCTCTCTGGAATTTGTGCTGATGTGCCTTCCACTGGATTTTGGGGTTCCAGCACCCCATGTGGATTTTGG
GGGTCCCTTTTGTGTCTCCCCGCCATTCAAGGACTCCTCTCTTTCTTACCAAGAAGCACAGAATTCTGCTGG

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FIGURE 6171

MEPPRGPPANGAEPsRAVGTVKVYLPNKQRTVVTVRDGMSVYDSLDKALKVRGLNQDCCVVYRLIKGRKTVTAWD
TAIAPLDGEELIVEVLEDVPLTMHNFVRKTFFSLAFCDFFCLKFLFHGFRQCQTCGYKFHQHCSSKVP TVCVD MSTN
RQQPSRFYHSVQDLGGSRQHEAPSNRPLNELLTPQGSPSPRTQHCDPEHFFFPAPANAPLQRI RSTSTPNVHMVS
TTAPMDSNLIQLTGQSFSTDAAGSRGSDGT PRGSPSPASVSSGRKSPHSKSPAEQREKSLADDKKKVKNLGYR
DSGYWVEVPPSEVQLLKRI GTGSFGTVFRGRWHGDVAVKVLKVSQPTAEQAQAFKNEMQVLRKTRHVNILLFMGF
MTRPGFAIITQWCEGSSLYHHLHVADTRFDMVQLIDVARQTAQGMDYLHAKNI IHRDLKSNNIFLHEGLTVKIGD
FGLATVKTRWSGAQPLEQPSGSVLWMAAEVIRMQDPNPYSFQSDVYAYGVVLYELMTGSLPYSHIGCRDQI IFMV
GRGYLSPDLSKISSNCPKAMRRLSDCLKFQREERPLFPQILATIELLQ RSLPKIERSASEPSLHRTQADELPAC
LLSAARLVP

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FIGURE 6172

CATCGCCGCGAGATCCAGCGCCCAGAGAGACACCAGAGAACCCACCATGGCCCCCTTTGAGCCCCTGGCTTCTGGC
ATCCTGTTGTTGCTGTGGCTGATAGCCCCCAGCAGGGCCTGCACCTGTGTCCCACCCACCCACAGACGGCCTTC
TGCAATTCCGACCTCGTCATCAGGGCCAAGTTCGTGGGGACACCAGAAGTCAACCAGACCACCTTATACCAGCGT
TATGAGATCAAGATGACCAAGATGTATAAAGGGTTCCAAGCCTTAGGGGATGCCGCTGACATCCGGTTCGTCTAC
ACCCCGCCATGGAGAGTGTCTGCGGATACTTCCACAGGTCCCACAACCGCAGCGAGGAGTTTCTCATTGCTGGA
AACTGCAGGATGGACTCTTGACATCACTACCTGCAGTTTTGTGGCTCCCTGGAACAGCCTGAGCTTAGCTCAG
CGCCGGGGCTTACCAAGACCTACACTGTTGGCTGTGAGGAATGCACAGTGTTCCTGTTTATCCATCCCCTGC
AACTGCAGAGTGGCACTCATTGCTTGTGGACGGACCAGCTCCTCCAAGGCTCTGAAAAGGGCTTCCAGTCCCGT
CACCTTGCCCTGCCTGCCTCGGGAGCCAGGGCTGTGCACCTGGCAGTCCCTGCGGTCCCAGATAGCCTGAATCCTG
CCCGGAGTGGAAGCTGAAGCCTGCACAGTGTCCACCCTGTTCCCACTCCCATCTTTCTTCCGGACAATGAAATAA
AGAGTTACCACCCAGC

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FIGURE 6173

ACATTGGGCTCCTCCTCCTCGGGCCACGTGAGCTGTAGGGAAACGCAGGGGCGGCTTCTAGGTGCTGCCGCCGC
CACCGCCACCACCACCTCCACCGCCGCCTCGGAACCCAGGCCTGGGGGGCGGTGGGGCCGCGTATGGAGCCCCG
CCCCCGGAGCTGCCAACATTGCCAACGCCACCGCCACGCTACACACAGGTACCCCTGGGATGGCGTGAGCACTC
CCCCAGCGATGGACCATCTGTGACGCTGTGGCAGTTTCTGCTGCAGCTGCTGAGAGAGCAAGGCAATGGCCACA
TCATCTCCTGGACTTCACGGGATGGTGGTGAATTCAAGCTGGTGGATGCAGAGGAGGTGGCCCCGGCTGTGGGGGC
TACGCAAGAACAAGACCAACATGAATTACGACAAGCTCAGCCGGGCCTTGCGGTACTACTATGACAAGAACATCA
TCCGCAAGGTGAGCGGCCAGAAGTTCGTCTACAAGTTTGTGTCTACCTGAGGTCGCAGGGTGCTCCACTGAGG
ACTGCCCCGCCCCAGCCAGAGGTGTCTGTACCTCCACCATGCCAAATGTGGCCCCCTGCTGCTATACATGCCGCC
CAGGGGACACTGTCTCTGGAAGCCAGGCACACCCAAGGGTGCAGGAATGGCAGGCCCAGGCGGTTTGGCACGCA
GCAGCCGGAACGAGTACATGCGCTCGGGCCTCTATTCCACCTTCACCATCCAGTCTCTGCAGCCGCAGCCACCCC
CTCATCCTCGGCCTGCTGTGGTGTCTCCCACTGCAGCTCCTGCAGGGGCAGCAGCGCCCCCCTCGGGGAGCAGGA
GCACCACTCCAAGCCCCCTTGGAGGCCTGTCTGGAGGCTGAAGAGGCCGGCTTGCCCTGTCAGGTATCCTGACCC
CGCCCGAGGCCCAAACCTGAAATCGGAAGAGCTTAATGTGGAGCCGGGTTTGGGCCGGGCTTTGCCCCAGAAG
TGAAAGTAGAAGGGCCCAAGGAAGAGTTGGAAGTTGCGGGGGAGAGAGGGTTTGTGCCAGAAACCACCAAGGCCG
AGCCAGAAGTCCCTCCACAGGAGGGCGTGCCAGCCCGGCTGCCCGCGGTTGTTATGGACACCGCAGGGCAGGCGG
GCGGCCATGCGGCTTCCAGCCCTGAGATCTCCAGCCGCAGAAGGGCCGGAAGCCCCGGGACCTAGAGCTTCCAC
TCAGCCCGAGCCTGCTAGGTGGGCGGGACCCGAACGGACCCCAAGGATCGGGAAGTGGCTCCGGCCTCCAGGCTC
CGGGGCCGGCGCTGACCCCATCCCTGCTTCTACGCATACATTGACCCCGGTGCTGCTGACACCCAGCTCGTGCTC
CTCTAGCACTTCACTTCTGAGCACCCCTGAGTCCCATTGCGCCCCGTAGCCCGGCCAAGCTCTCCTTCCAGTTTC
CATCCAGTGGCAGCGCCAGGTGCACATCCCTTCTATCAGCGTGGATGGCCTCTCGACCCCGTGGTGCTCTCCC
CAGGGCCCCAGAAGCCATGACTACTACCACCACCACCACCACCCCTTCTGGGGTCACTCCATCCATGCTCTCTCC
AGCCAGCCATCTCAAGGAGAAACATAGTTCAACTGAAAGACTCATGCTCTGATTGTGGTGGGTGGGGATCCTTG
GGAAGAATTACTCCCAAGAGTAACCTCTCATTATCTCCTCCACAGAAACACACAGCTTCCACAACCTCTCTGTTT
TCTGTAGTCCCCAGTGGCCGCCCTTACACGTCTCCTACTTCAATGGTAGGGGCGGTTTATTTATTTATTTTTT
GAAGGCCACTGGGAGGAGCCTGACCTAACCTTTTAGGGTGGTTAGGACATCTCCCCACCTCCCCACTTTTTTCC
CCAAGACAAGACAATCGAGGTCTGGCTTGAGAACGACCTTTCTTTCTTTATTTCTCAGCCTGCCCTTGGGGAGAT
GAGGGAGCCCTGCTCTGCGTTTTTGGATGTGAGTAGAAGAGTTAGTTTGTTTTGTTTTATTATTCCTGGCCATACT
CAGGGGTCCAGGAAGAATTGTACCAATTTAATGGGTGGGAGTCTTGGCCAAGGAAGAATCACACCCTTGAATA
GAAATTTCCACCTCCCCAACCTTTCTCTCAGACAGCTTATCCTTTTCAACCAACTTTTTGGCCAGGGAGGAATGT
CCCTTTTGTCTTCCCCCTGAGAAGCCATTCCCTTTGTCTGCCAACCTCCCTGGGGTCCCTGCCTGTTTCCCTCCAA
TGGAGGGTTTTTTTTGGGGGGTGGTCCCCGTCTGGGGGGCCCCCTCCAGCCAGTACTCCAGGTCTCCCTGTCTCTCC
CCCCTGCCATTTTGATAGTATAATCTATTTTTAAATGGGGCTTTTCAATAGGGGAGAGGGAGTCACTCTTCCCT
ATATTTGGTGGGTGGGTGGGAAGGAAGGGATTTGGGGGGGAATCTTCTGCCGCTCCCCACTCCAAGTGTTT
ATTTTTGATACCAACATGAATTTTCAGTTCCCTCCCTCCAGCCCCCAATTTCTGCGGGCGGGTACAAAGGA
CCCTTTCAATGTCCCTGGAGTTGGGAGGGAGGAATGGGGACATAAAGCCTGTCTGTCTCTATTCTAGGCAAGA
GAGAGTGGGTTCAAAAGACTCCTGGGCTCACCTGTTAGCGCTGGCCCAGCCAGGCCTTGGGACCTGGGGGTGG
TGATTTGGGGGACAGTGTCTACACTCGTCTCCACTGTTTGTTTTACTTCCCCAAAATGGACCTTTTTTTTTTCTAA
AGAGTCCAGAGAATGGGAATTGTTCTGTAAATATATATTTTTTCAAAGTGA

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FIGURE 6174

CGGAAGCCGCGGTTCCCTACCAACCGTTCTTATTGCTGGCGGCCTGAGGAGCCCATCATGGCGACGCCCCCTAAGC
GGCGGGCGGTGGAGGCCACGGGGGAGAAAGTGCTGCGCTACGAGACCTTCATCAGTGACGTGCTGCAGCGGGACT
TGCGAAAGGTGCTGGACCATCGAGACAAGGTATATGAGCAGCTGGCCAAATACCTTCAACTGAGAAATGTCATTG
AGCGACTCCAGGAAGCTAAGCACTCGGAGTTATATATGCAAGGTGGATTTGGGCTGTAACTTCTTCGTTGACACAG
TGGTCCCAGATACTTCACGCATCTATGTGGCCCTGGGATATGGTTTTTTCCTGGAGTTGACACTGGCAGAAGCTC
TCAAGTTCATTGATCGTAAGAGCTCTCTCCTCACAGAGCTCAGCAACAGCCTCACCAAGGACTCCATGAATATCA
AAGCCCATATCCACATGTTGCTAGAGGGGCTTAGAGAACTACAAGGCCTGCAGAATTTCCCAGAGAAGCCTCACC
ATTGACTTTCTTCCCCCATCCTCAGACATTAAAGAGCCTGAATGCCTTT

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FIGURE 6175

MATPPKRRAVEATGEKVLRYETFISDVLQORDLRKVLDHRDKVYEQLAKYLQLRNVIERLQEAKHSELYMQVDLGC
NFFVDTVVPDTSRIYVALGYGFFLELTAEALKFIDRKSSLLTELSNSLTKDSMNIKAHIHMLLEGLRELQGLQN
FPEKPHH

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[illegible]

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FIGURE 6177

CCTGTTTTTGTGCTCCTCCGAGCTCGCTGTTTCGTCCGGGTTTTTTACGTTTTTAATTTCCAGGACTTGAAGTGCC
ATGTCCTCTGAAGAAGGAAAGCTCTTCGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCACTGGAAGACCAC
TTCAGCAGTTTCGGACCTATCTCTGAGGGTGAGACGGGCCATACTCACAAATGGGGGTTGGTGAGAGAAAGTCTGG
GATCCTTGCAATTTCAAGGAGTATTAAGTGAAGGTTAGGACCCACGCCCTCCAAATTTCTTTTTCTTCCTAAGCCTA
TGGTGTAGACTAAGGATGAGGGGAAGCGTCTTTGGGATTAGTGGGAGCGCTCCGTTTTCCCTACCTATGCCATCT
CCTTTTCCGGCCACCCTTTGCTACTTAACCTTTGGGGTACTGACTGGTCCACATTGCTCCATCTTCTCTCCCTCT
CACAGTGGTCTGTTGTCAAGGACCGGGAGACTCAGCGGTCCAGGGGTTTTGGTTTTCATCACCTTCACCAACCCAGA
GCATGCTTCAGTTGCCATGAGAGCCATGAACGGAGAGGTGGGGCCTCCTATCTGCAGAGGGACCTTGTCCTCCATC
TGCGGCTTCCTTCATTCTTTTTGTTTTTCCCTCTGTGTCTGCTCGGGGCAGCGTGGCCACCAAGCCCCGAGTGC
CCACTCACAGGAGCATGACTGCCTTTTGTCTAGGGGGTGGAGGGCAGCGGCAGACAGAGCCTGGCCGCCTGGGA
GGCGACGACTGGTCTGCATGAGGCCGAGAAGCCACCTGTGGATGGTTGACCTGCCTTGGGCTTAGGTAGTAGAG
TCTGCAGACCTGTGGGCCTGGCCCGGAGAGGACCTCGTGAGTCTTCTGACATGGACTCTGAAGCCTCAAACCAAG
AGAGGTGTCTGTCTAGCCCTGATAGTCGGGCAGCTTAGAGGAGTGGGGAGGAGAACTCAGCCTGAGTTCAGTCAA
GATGTAAGTAGTAGCAAGGGGAACATGGTGCATTCAGGTCAATTTGTGTGGGATTCTATAGCTCCTGATGAAGCC
ATTCTGGGGTAAAGGAGCTTATCTGGAACATGGCACCCAGAACCTGGTGCCAGCAGGAATTTTTGGCCTCTTT
TGCCCACTTACCCTTGCTGCTCTTCCCTCACCATTTGCCCTGACTGACTGCCAACCCATCATCCTTGCTGTCTCCC
ACACTTAGTCTCTGGATGGTCTGCATCCGTGTGGATCATGCAGGCAAGTCTGCTCGGGGAACAGAGGAGGTG
GCTTTGGGGCCCATGGGCGTGGTGCAGCTACTCTAGAGGTGGTGGGGACCAGGGCTATGGGAGTGGCAGGTATT
ATGACAGTCGACCTGGAGGGTATGGATATGGATATGGACGTTCCAGAGACTATAATGGCAGAAACAGGGTGGTT
ATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAACCTGAAATGAGACATGCACATAATATAGGTGAG
ACTTGGATATCGGCATTGAGTGAACCTGTTTGTACACTCTGTCTGACCTCTCACCTTTTCTGGCAAGACTGC
TCTGCATTTCTGCTGCCCTCATACCTCACCCAGCCAACCTACCAAACATTCTAGCTAGGCCTTCCTTGCTCTCA
GGTGCATATCAGAGCAAGTTTGCTAGGGGGTGGGATCTGAAAACCCATCTCCTATAATCTTCTACTCTTGTTGG
GATGGAGGAAATGAAGGTGTGTCCCTGTTGTCCAACCCCTCAGCATCTTCATCAGCTCTAGGAGGTGAGCATGTTG
TCAGCTGTTACTTCATGACATCACAAATTCCTCCCTCTTGTCTGTTCCAGATACACAAGGAATAATTTCTGATCC
AGGATCGTCTTCCAAATGGCTGTATTTATAAAGGTTTTTGGAGCTGCACTGAAGCATCTTATTTTATAGTATAT
CAACCTTTTGTTTTTTAAATGACCTGCCAAGGTAGCTGAAGACCTTTTAGACAGTTCATCTTTTTTTTTTAAATT
TTTTCTGCCTATTTTAAAGACAAATTATGGGACGTTTGTAGAACCTGAGTATTTTTCTTTTTTACCAGTTTTTAGT
TTGAGCTCTTAGGTTTTATTGGAGCTAGCAATAATTGGTTCTGGCAAGTTTGGCCAGACTGACTTCAAAAAATTAA
TGTGTATCCAGGGACATTTTAAAAACCTGTACACAGTGTATTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTA
TAAGAAATGTGCATCAAGCCAGCCTGACCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTG
GCATGGTGGTGTACGCCTGTAATCCAGTGACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGG
AGGTTGCAGTGAGCTAAGATCGCGCCACTGTACTCCAGCCTGGGCAACAGCGAGACTCCATCTCAAAAAAAGG
AAATGTGTATCAAGAACATGATTATCCAGGGGTATTTTCTAATTCAGATCATCAAACCTGATTATATAGAAGAGTT
GGCTTTAAATGTTTGCAAATGTCTTTTTTTTTTTAATACTGGAAGAAAAATATTCTGTTGTGTCTCATACAGT
GCTTAGGATGTCTTTCACAGAGCTTATTAAGAGATGAAACCTG

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FIGURE 6178

MAPRTWCPAGIFGLFCPLTLACSSLTIALTDCQPIILVSPTLSLWMVRSVWIMQASLLGEPEEVALGPMGVVAA
TLEVVGTRAMGVAGIMTVDLGMDMDMDVPETIMAETRVVMTATQEEITETIMTTEMRHAHNIGETWISALSEPV
CHTLS

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FIGURE 6179

TCTTGCCTGGAGCCTGAGAAAGGGAGGAGAGACAGAAGGAACCGGCGACAGTGGTCTCAGGGCCGCTCCGGGGGG
CCTCAAGAACCGGAGGCAGCCCCGAGGTGGTCCCCGATCCCGGGCTATGCTCTTGATCTGAGAAGGGAAGGCG
GAGGGCGGCGGGGACAAGATGGGTGGAGAATGTCAAGCAAGGAATGCTAGGCGGGGGAGGGGCGTTGCTATGGCG
ACTGGGGAGGGGCGGTGTCTGTTCTGAATCGCTGTGTGTACCCGGGCGCTGCCAGGAAGGGCAGGGCTGGGGT
GATGACCATGGTAACACCCGGGTGGGAGTTTCGTGACATCTCCGGCGCGGAGGGACTCGATGTCTATGGCAATGGT
CGCCTGGTGGAAAGGGACGGAAGTAGATCCCTTCGCTCGGGACGCTCACATTCCAGGCCCTTGTCTGCAGGCTGC
CGCGGGCGGACACGCCAGAGGAGGAGGCCGGGGAATCGGCCGCGGTGTGGCAGCAAGTCTTAGCAGTGGACGCGAG
GTACAACGCGTACCGCACACCAACGTTTCCACAGTTTCGGACGCGAGTATATCCGCCGGCGCAGCCAGCTGCTGCC
GGAGAATGCCAAGGCTGGGCACCCCCCAGCGCTGCGTCGGCAGTACCTGAGGCTTCGGGGGCGAGCTGCTGGGCCA
GCGCTACGGGCCCCCTCTCCGAGCCAGGCAGTGTCTGCTGCTATAGCAACAGCATCGTCCGCGAGTAGCCGCACTAC
TCTTGACCGCATGGAGGACTTTGAGGATGATCCTCGGGCCCTGGGGGCGCGTGGGCACCGTCTGTTCTGTGACAG
AGGCTCCTACCAGCTGCAGGCGCAGATGAACCGTGCCGTCTATGAGGACAGGCCCCCTGGCAGCGTGGTGCCAC
GTCAGCAGCAGAGGCAAGTCGGGCCATGGCCGGGGACACGTCACTGAGCGAGAACTATGCCCTTTCGGGCGATGTA
TCATGTTTTTGACCAGCACGTGGATGAGGCAGTCCCAAGGGTGCGCTTCGCCAATGATGACCGACACCGCCTGGC
CTGCTGCTCACTCGACGGCAGCATCTCCCTGTGCCAGCTGGTGCCTGCCCCACCCACAGTGCTTCGCGTGCTACG
GGGCCACACCCGTGGTGTCTCCGACTTCGCCTGGTCCCTCTCCAATGACATCCTCGTGTCCACCTCACTGGATGC
CACCATGCGCATCTGGGCCTCTGAGGATGGTTCGCTGCATCCGAGAGATCCCTGACCCCGATAGCGCTGAACTGCT
CTGCTGCACCTTCCAGCCTGTCAACAACAACCTCACTGTGGTGGGGAACGCCAAGCACACGTGCATGTCATGAA
CATCTCCACAGGCAAGAAAGTGAAGGGGGGCTCCAGCAAGCTGACAGGCCGTGTCTTGTCTGTCTTGTATGTC
CCCTGGCCGGCTGCTCTGGGCGGGTGATGACCGTGGCAGTGTCTTCTCTTTCTCTTTGATATGGCCACAGGGAA
GCTGACCAAGCCAAGCGTTTGGTGGTGCATGAGGGGAGCCCTGTGACCAGCATCTCAGCCCGTCTGGGTGAG
CCGCGAGGCCCGGGATCCCTCACTGCTCATCAATGCTTGCCTCAACAAGTTGCTGCTCTACAGGGTGGTAGACAA
CGAGGGGACCCTGCAGCTGAAGAGAAGCTTCCCCATCGAGCAGAGCTCACATCCTGTGCGCAGCATCTTCTGTCC
CCTCATGTCTTCCGCCAGGGGGCCTGCGTGGTGCAGGGCAGTGAGGACATGTGCGTGCACCTCTTTGATGTGGA
GCGGGCGGCCAAGGCTGCTGTCAACAAGCTGCAGGGCCACAGTGCACCTGTGCTTGTGCTGAGCTTCAACTGCGA
CGAGAGCCTACTGGCTCCAGTGACGCCAGCGGCATGGTTCATCGTCTGGAGGCGGGAGCAGAAGTACGGGTCCTGT
CGGCCCTGCTGCTGTCTCCATCCCACCCCTCTTACTCCAGCCTCGTGTGTAATAAAGTTTCGGTGGTTCATGC
TGAGGGCGGCTCCCAGCTCTGCCGGGGACGGACAGGGCAGAGGGCAGCGGGCAGCTCCAGGAACACGGTGAAAA
AAAAAAA

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FIGURE 6180

MAAVWQQVLAVDARYNAYRTPTFPQFRTQYIRRRSOLLRENAKAGHPPALRRQYLRLRGQLLGQRYGPLSEPGSA
RAYSNSIVRSSRTTLDREDFEDDPRALGARGHRRSVSRGSYQLQAQMNRAVYEDRPPGSVVPTSAAEASRAMAG
DTSLSENYAFAGMYHVFDQHVDEAVPRVRFANDDRHRLACCSLDGSI SLCQLVPAPPTVLRVLRGHRTRGVSDFAW
SLSNDILVSTSLDATMRIWASEDGRCIREIPDPDSAELLCTFQPVNNNLTVVGNAKHNVHVMNISTGKKVKGGS
SKLTGRVLALSFDAPGRLLWAGDDRGSVFSFLFDMATGKLTAKRLVVHEGSPVTSISARSWVSREARDPSLLIN
ACLNKLLLYRVVDNEGTQLKRSFPIEQSSHVRSIFCPLMSFRQGACVVTGSEDMCVHFFDVERAAKAAVNKLQ
GHSAPVLDVSNFCDESLASSDASGMVIVWRREQK

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FIGURE 6181

GGGAGAGGAACAGGGCCCTGGAGCACCTGGTTTTCGGGACAGTAGGGTTGGTGGGAGTTGCGATGATATTGCCAC
CTACCTCTTACATCTTTTAGTGCGTATGTTCTGTCCACCCAGCTACTGGTTCATTTGAGTAGATCGGAGTCAGAT
GAGTACATGTTTACGGGAGGCGCTTGGTTACGGGATCCAGATAGGAATCTTTATCTGAGCTGCTTGTCAGTTTGT
TCGTCTGTCCCTAGGTCTGTCTGCTATCAGCTATGCCGCTGCCCGTTGCGCTGCAGACCCGCTTGGCCAAGAGAG
GCATCCTCAAACATCTGGAGCCTGAACCAGAGGAAGAGATCATTGCCGAGGACTATGACGATGATCCTGTGGACT
ACGAGGCCACCAGGTTGGAGGGCCTACCACCAAGCTGGTACAAGGTGTTGACCCCTTCCCTGCGGGCTCCCTTACT
ACTGGAATGCAGACACAGACCTTGTATCCTGGCTCTCCCCACATGACCCCACTCCGTGGTTACCAAAATCGGCCA
AGAAGCTCAGAAGCAGTAATGCAGATGCTGAAGAAAAGTTGGACCGGAGCCATGACAAGTCGGACAGGGGCCATG
ACAAGTCGGACCGCAGCCATGAGAACTAGACAGGGGCCACGACAAGTCAGACCGGGGCCACGACAAGTCTGACA
GGGATCGAGAGCGTGGCTATGACAAGGTAGACAGAGAGAGAGCGGAGACAGGGAACGGGATCGGGACCGCGGGT
ATGACAAGGCAGACCGGGAAGAGGGCAAAGAACGGCGCCACCATCGCCGGGAGGAGCTGGCTCCCTATCCCAAGA
GCAAGAAGGCAGTAAGCCGAAAGGATGAAGAGTTAGACCCCATGGACCCTAGCTCATACTCAGACGCCCCCGGG
GCACGTGGTCAACAGGACTCCCCAAGCGGAATGAGGCCAAGACTGGCGCTGACACCACAGCAGCTGGGCCCCCTCT
TCCAGCAGCGGCCGTATCCATCCCCAGGGGCTGTGCTCCGGGCCAATGCAGAGGCCTCCCGAACCAAGCAGCAGG
ATTGAAGCTTCGGCCTCCCTGGCCCTGGGTTAAATAAAAGCTTTCTGGTGATCCTGCCCCACC

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FIGURE 6182

MPLPVALQTRLAKRGILKHLEPEPEEEIIAEDYDDDPVDYEATRLEGLPPSWYKVFDPSGLPYYWNADTDLVSW
LSPHDPNSVVTKSAKKLRSSNADAEKLD RSHDKSDRGHDKSDRSHEKLD RGHDKSDRGHDKSDRDRERGYDKVD
RERERDRERDRDRGYDKADREEGKERRHHRREELAPYPKSKKAVSRKDEELDPMDPSSYS DAPRGTWSTGLPKRN
EAKTGADTTAAGPLFQQRYPYSPGAVLRANAEASRTKQQD

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FIGURE 6183

TTGATGTTTTCCAGTCATTCCGGCTGACAGCGTTCAAAGTTGGAATCCTGGAGGGGAGGTGTTTTTCTGTCGTAC
GTGGGACAGGCCACGCTGTCCGTCCGCAGTACCGACGCTGCAGGTGAGAGCTTCGGGGAGAAAAGTGAAGAGCA
AGACGGAAGTACGGGGAGAAAAGGCTGGGAACCAAGGTGTGCACTTTGACTGAAATTTGAGACGGAGGGCACCGG
AGGGCGAGCACTCGCCTGTGATTGGCCCGTGGGCGTCTGAGGTCCACGCAGCTGCTCAATTGGTTGGTGTG
CAATTGTTGTGGCGGCGGCGGCGGCGATTGTTGCCACGTACTTCCGAGTAAGGGGCGGGGCTGTGCCCTGGCGCG
CGTGCGCAGCGCCCCGGGGCCCCACCCGGTAGTGCAAGAACCTGCGAGGGGGCGGAGCGAAGAGGTGCTTGT
GGTTCGTGTTTTCTTTGAAGCAGAAGGCCGGAACAAGCGTAGCAATAAACTTGCTGGACTTGAGAGAAGGCTAAG
ACAACTCGCCGCACTGCCTTCATCTTGACTTTACATCCGGGTTCTCTCTCGGCGTGACCCGCGCGCCGCCAC
CGCCGCCGCCGCCGCCGCCGCCCTCCGCCGCCGAGGGTTCTCGAACCGGTGCCGCGATCCCTTTATCCGGGTC
TCGCCGTTCCCGTCGTGCCCTCGCGCACTACACTAGCCCCCTCATCCGGGTTCTCTCCCGGCGTGCCCCGCGCCGG
GTTTGTGGGGGGTACTCGGCAGTGCAGCCATGACTATACTCCCCAAAAGAAGCCGCCGCTCCCGACGCCGAC
CCCGCCAACGAGCCGCCGCCGCCGCCGCCGCGGCGATGCCCCGGCGCCGCGCGCGCGGCGGAGGTGTGGGCGTGGGCGGC
GGCGGCACGGGCGTGGGCGGCGGCGATCGCGACCGTGACTCCGGCGTCTGTGGGGGCCCCGTCCGCGAGCTTCGCCA
CCGCTCAAGGCCCGCTACAGGACCGCGGGCGCTCTTCATCGCTGGGCGTGGCCGTGCCGCTGGTGCAGTG
GCGGGTCCCCGGCCACAACAGGCTTCTCCACCTCCTTGCGGGGGCCAGGTGGTCCCGGCGGCGGTCCCGGCGAC
GCGTGGGCGCAGCGGCGGCGGGTGTGGGTGCCGCGGGCGTGGTGGTGGTGTGGGTGGTGGCGTAGGCGTGGGCG
GGCTGCTGCTCCGGGCGTGGGCGACAGCAAGCGGCGACGTCAAGCTCCCGGGTTGGCGCGGTGGCGGGGCGAGT
CCCGAGCGTGAGGAGGTGCGCGCAGGCTACAACAGTGAGGACGAGTATGAGGCGGCTGCAGCACGCATCGAGGCT
ATGGACCCTGCCACTGTGAGCAGCAGGAGCATTGGTTTGAAAAGGCCCTACGAGACAAGAAGGGCTTCATCATC
AAGCAGATGAAGGAGGATGGCGCCTGTCTCTCCGGGCTGTAGCTGACCAGGTGTATGGAGACCAGGACATGCAT
GAGGTGTGCGAAAGCATTGCATGGACTATCTGATGAAGAATGCCGACTACTTCTCCAATATGTACAGAGGAC
TTTACCACCTACATTAACAGGAAGCGGAAAAACAATTGCCATGGCAACCACATTGAGATGCAGGCCATGGCAGAG
ATGTACAACCGTCCTGTGGAGGTGTACCACTACAGCACAGAACCACATCAACACATTCCATGGGATACATCAAAAC
GAGGACGAACCCATTTCGTGTTAGCTACCATCGGAATATCCACTATAATTGAGTGGTGAATCCTAACAAGGCCACC
ATTGGTGTGGGGCTGGGCGTCCCATCATTCAAACCAGGGTTTGAGAGCAGTCTCTGATGAAGAATGCCATAAAA
ACATCGGAGGAGTCATGGATTGAACAGCAGATGCTAGAAGACAAGAAACGGGCCACAGACTGGGAGGCCACAAAT
GAAGCCATCGAGGAGCAGGTGGCTCGGGAATCCTACCTGCAGTGGTTGCGGGATCAGGAGAAACAGGCTCGCCAG
GTCCGAGGCCCCAGCCAGCCCCGGAAGCCAGCGCCACATGCAGTTCGGCCACAGCAGCAGCCTCCAGTGGCCTG
GAGGAGTGGACTAGCCGGTCCCCGCGGCAGCGGAGTTAGCCTCGTCACCTGAGCACCTGAGCTGCATGCTGAA
TTGGGCATGAAGCCCCCTTCCCCAGGCACTGTTTTAGCTCTTGCCAAACCTCCTTCGCCCTGTGCGCCAGGTACA
AGCAGTCAGTTCTCGGCAGGGGCCGACCGGGCAACTTCCCCCTTGTGTCCTCTACCTGCTTTGGAGTGCCGG
GCCCTCATTAGCAGATGTCCCCCTCTGCCTTTGGTCTGAATGACTGGGAAGATAGACAAGAGGCACACAGAGAC
AGACCAACTGGCAGCCAGGCAGCCCCAGAGGAGAGAGACATTGAGACAGAGGAAAGTCTCCCTGCCCTCATTCC
TTCCAAGATGAGAAAACTTGCCGCCACCCCCGACACTGATGCCAGGGAGGTGGGAGGAAGAAGTGGGAAATTT
CCCTTCCAGTACCCCCAAGACGTCTGAGCCTTCAATGTTGAATTTTTTCTTTATTAAAATTACTTTTATCTTA
TAAATC

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FIGURE 6184

MTILPKKKPPPPDADPGGTGVGGGDRDRDSGVVGARPRASPPPQGPLPGPPGALHRWALAVPPGAVAGPRPQQAS
PPPCGGPGGGPGGGPGDALGAAAAGVGAAGVVVGAVGVGGCCSGPGHSKRRRQAPGVGAVGGGSPEREEVGAG
YNSEDEYEAAAARIEAMDPATVEQQEHWFEEKALRDKKGFIIKQMKEDGACLFRAVADQVYGDQDMHEVVRKHCM
YLMKNADYFSNYVTEDFTTYINRKRKNNCHGNHIEMQAMAEMYNRPVEVYQYSTEPINTFHGIHQNEDEPIRVSY
HRNIHNSVNNPNKATIGVGLGLPSFKPGFAEQSLMKNAIKTSEESWIEQQMLEDKKRATDWEATNEAIEEQVAR
ESYLQWLRDQEKQARQVRGPSQPRKASATCSSATAAASSGLEEWTSSRSPRQRSSASSPEHPHELHAELGMKPPSPG
TVLALAKPPSPCAPGTSSQFSAGADRATSPLVSLYPALCRALEIQQMSPSAFGLNDWEDRQEAHRDRPTGSQAAP
EERDIQTEESLPAPHSFQDEKNLPPPPDTDAREVGGRSKGFPFPVPPRTSEPSMLNFFFFIKITFIL

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FIGURE 6185

CTGGGTGTACAGCGTCCTCGAAACCACGAGCAAGTGAGCAGATCCTCCGAGGCACCAGGGACTCCAGCCCATGCC
ATGGCGGATTCTGAGCGCCTCTCGGCTCCTGGCTGCTGGGCCGCTGCACCAACTTCTCGCGCACTCGAAAGGGA
ATCCTCCTGTTTGCTGAGATTATATTATGCCTGGTGATCCTGATCTGCTTCAGTGCCTCCACACCAGGCTACTCC
TCCCTGTCGGTGATTGAGATGATCCTTGCTGCTATTTTCTTTGTTGTCTACATGTGTGACCTGCACACCAAGATA
CCATTCACTCAACTGGCCCTGGAGTGATTTCTTCCGAACCCTCATAGCGGCAATCCTCTACCTGATCACCTCCATT
GTTGTCCTTGTTGAGAGAGGAAACCACTCCAAAATCGTCGCAGGGGTACTGGGCCTAATCGCTACGTGCCTCTTT
GGCTATGACGCCTATGTCACCTTCCCCGTTCCGGCAGCCAAGACATACAGCAGCCCCCACTGACCCCGCAGATGGC
CCGGTGTAGGCGAACTTCCCTCATTTCTCTCTGCAATCTGCAAATAACTCCTCCATTGAAATAACTCCTCCCCAC
CCCAACAACAACATTCCCAGCAGACCAACTCCCACCCCTCTTTGAGGTAAAAGTGCCTTTATTGGGAGACTTTT
GTCTTCCAGCCTGCCAATCAACCTCCTGGGTGTGGCCACCATATGTGTGTGCCTAGGTCTCTCTTCTGCACGAT
CCAATAGGAGACACCAGTTCTGACTGAACCATGCCCCACCTAAGTCACAAAATGAGGGAAGTGGGGAGTTAGAT
TTCAGAGTCCAGGCCCTAGGTTGGGACCCACTCCAAATAATCTCTCGGTGTGGGTGGTGGTTCTATAGAGGGAT
AAATGAATAATAAACATTGTTAAATATAAAAAAAAAAAAAAAAAA

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FIGURE 6186

MADSERLSAPGCWAACTNFSRTRKGILLFAEIIILCLVILICFSASTPGYSSLSVIEMILAAIFFVVYMC DLHTKI
PFINWPWSDFFR TLIAAILY LITSIVVLVERGNH SKIVAGVLGLIATCLFGYDAYVTFPVRQPRHTAAP TDPADG
PV

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FIGURE 6187

GAGCACGGAGCAGGGTTTCTACAGCTGCTCCCCACTTTCTCGGACCCGGTCCTGGACCCAGCCCCGACTCCGAC
ACGGCTCCACC**ATCG**GAGGAGGCGGACCGAATCCTCATCCATTTCGCTGCGCCAGGCCGGCACGGCAGTTCCTCCAG
ATGTGCAGACCTTGC GCGCCTTCACCACTGAGCTGGTTGTAGAGGCTGTGGTCCGCTGCCTGCGTGTGATCAACC
CTGCGGTGGGCTCTGGCCTCAGCCCTCTGCTGCCTCTTGCCATGTCTGCCCCGGTTCCGCCTGGCCATGAGCCTGG
CTCAGGCCTGCATGGACCTGGGCTATCCCTTGAGCTTGCTATCAGAACTTCCTCTACCCAGTGAGCCTGACC
TCCGAGACCTGCTTCTCTTCTTGCTGAGCGTCTGCCACCGATGCCTCTGAGGATGCAGACCAGCCTGCAGGTG
ACTCAGCTATTCTCCTCCGGGCCATTGGGAGCCAAATTCGGGACAGCTGGCACTGCCTTGGGTCCCGCCCCACC
TTCGCACTCCCAAGCTGCAGCACCTCCAGGGCTCGGCCCTCCAGAAGCCTTTCCATGCCAGCAGGCTGGTCTGTC
CAGAATTGAGTTCCAGAGGTGAGCCACGGGAGTTCCAGGCGAGTCCCCTGCTGCTTCCAGTCCCTACCCAGGTGC
CTCAGCCTGTTGGAAGGTGGCCTCGCTCCTCGAACACCATGCCCTGCAGCTCTGCCAGCAGACGGGCGGGACC
GGCCAGGGGATGAGGACTGGGTCCACCGGACATCCCGCTCCACCCAGGAGGACACACGGGCTCAGCGGCAGC
GGCTGCAAAAGCAACTGACTGAGCATCTGCGCCAAAGCTGGGGCCTGCTTGGGGCCCCCATACAAGCCCCGGGACC
TGGGAGAACTGCTGCAGGCCTGGGTGCTGGGGCCAAGACTGGTGCTCCTAAGGGCTCCCGCTTACGCACTCAG
AGAAGTTCACCTTCCATCTGAGCCCCAGGCCACAGGCTCAGGTGTGAGATGTGCCAGCCACCTCCCGGCGGC
CTGAACAGGTACAGTGGGCAGCTCAGGAACAGGAGCTCGAGTCCCTTCGGGAGCAGCTGGAAGGAGTGAACCGCA
GCATTGAGGAGGTTGAGGCCGACATGAAGACCCTGGGCGTCAGCTTTGTGTCAGGCAGAGTCTGAGTGCCGGCACA
GCAAGCTCAGTACAGCAGAGCGTGAGCAGGCCCTGCGCCTGAAGAGCCGCGCGGTGGAGCTGCTGCCCGATGGGA
CTGCCAACCTTGCCAAGCTGCAGCTTGTGGTGGAGAATAGTGCCAGCGGGTCATCCACTTGCGGGTTCAGTGGG
AGAAGCACCGGGTCCCACTCCTCGCTGAGTACCGCCACCTCCGAAAGCTGCAGGATTGCAGAGAGCTGGAATCTT
CTCGACGGCTGGCAGAGATCCAAGAACTGCACCAGAGTGTCCGGGCGGCTGCTGAAGAGGCCCGCAGGAAGGAGG
AGGTCTATAAGCAGCTGATGTGAGAGCTGGAGACTCTGCCAGAGATGTGTCCCGGCTGGCCTACACCCAGCGCA
TCCTGGAGATCGTGGGCAACATCCGGAAGCAGAAGGAAGAGATCACCAGATCTTGTCTGATACGAAGGAGCTTC
AGAAGGAAATCAACTCCCTATCTGGGAAGCTGGACCGGACGTTTTCGGTGACTGATGAGCTTGTGTTCAAGGATG
CCAAGAAGGACGATGCTGTTTCGGAAGGCCTATAAGTATCTAGCTGCTCTGCACGAGAACTGCAGCCAGCTCATCC
AGACCATCGAGGACACAGGCACCATCATGCGGGAGGTTTCGAGACCTCGAGGAGCAGATCGAGACAGAGCTGGGCA
AGAAGACCCTCAGCAACCTGGAGAAAGATCCGGGAGGACTACCGAGCCCTCCGCCAGGAGAACGCTGGCCTCCTAG
GCCGGGTCCGGGAGGCC**TGAG**GAGCCGCCGGCAGAGGTCTCTCCCCAGCCTCAGGCAGGGATTGGGGTGCTGGA
GGCAGTGGCCAAGCACATGCCCTAGCTACTTCTCCGCTGTCCAGTTCCTCCTGCTGCGGCCTTGACCCAGACC
CCTGCCCCACTGACCGCAACCCTTATATGGGGTGATAGTCCAGCATGTGGGGAGCTCGGCTGCAGTTTATTGGGA
CGGTACTGTGGGTGGGGGCCCTTGATCCCAAATAAATGAGTAGTTCCTCTGC

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FIGURE 6188

MEEADRILIHSLRQAGTAVPPDVQTLRAFTTELVEAVVRCLRVINPAVGSGLSPLLPLAMSARFRLAMSLAQAC
MDLGYPLELGYQNFLYPSEPDRLDLLFLAERLPTDASEDADQPAGDSAILLRAIGSQIRDQLALPWVPPHLRTP
KLQHLQGSALQKPFHASRLVPELSSRGEPREFQASPLLLPVPTQVPQPVGRVASLLEHHALQLCQQTGRDRPGD
EDWVHRTSRLPPQEDTRAQRQRLQKQLTEHLRQSWGLLGAPIQARDLGELLQAWGAGAKTGAPKGSRFTHSEKFT
FHLEPQAQATQVSDVPATSRPEQVTWAAQEQELESLEQLEGVNRSIEEVEADMKT LGVSFVQAESECRHSKLS
TAEREQALRLKSRAVELLPDGTANLAKLQLVVENSAQRVIHLAGQWEKHRVPLLAEYRHLRKLQDCRELESSRRL
AEIQELHQSVRAAAEEARRKEEVYKQLMSELETLPDVSRLAYTORILEIVGNIRKQKEEITKILSDTKELQKEI
NSLSGKLDRTFAVTDELVFKDAKKDDAVRKAYKYLAALHENCSQLIQTIEDTGTIMREVRDLEEQIETELGKCTL
SNLEKIREDYRALRQENAGLLGRVREA

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FIGURE 6189A

GGGCTGCTGTGCTGGCAGCAGTAGGCGAGGGCGCGGCTGCGGGGTTCTTGGTGCTGAGGACGGACGCCATTGGAG
TTCCCGAGAAGATCCCGCCTCCCATGAATCCCGCCCCCTCCCCCTGCAGCTGCTTCACCCTCCCTCTCAGGCTG
AGCTCTCATCTCCCTGGGAGCCCGCAGCATGGCTGAGGGAAGCTTCAGCGTGCAATCGGAAAGCTACAGTGTGA
AGACATGGATGAGGGTAGCGACGAAGTCGGGGAGGAAGAGATGGTTGAAGGCAACGACTATGAAGAATTCGGTGC
GTTTGGTGGCTATGGCACCCCTACCAGCTTTGACATCCATATCCTCAGAGCCTTCGGAAGCTTGGGTCCAGGCCT
TCGCATCTTATCGAATGAGCCCTGGGAAGTGGAAAACCCCTGTGCTGGCCAGACCCCTGGTGGAGGCATTGCAGCT
GGATCCGGAACACTTGCCAATGAGACGGCCGCCCGTGTGCCAACGTAGCCCGCGCCGCCGCTCCAACCGTGC
GGCTCGGGCCGTGTCCGCCGTGCCGTACCGCCTTCAGTCAGGTGGTGCCTAGCCACCGGGTGCCACGCCCGCAG
GTCTCAGGAGAGGATACCCAGCCACGACCTACGCCGCCGAGGTGAGGGGCCACCCCTGAGCACCCCTTGCTTC
TCCGCAGACCTCCAGATGTTAGTCACCAGTAAGATGGCTGCCCCGAGGCTCCGGCAACCTCCGCACAGTCCCA
GACAGGCTCCCCGGCCAGGAGGCTGCTACTGAGGGCCCTAGTAGCGCTGTGCTTTCTCTCAGGCTCCGTGTGC
CAGGGAGGTGGACGCCAACCGGCCAGCACAGCCTTCCTGGGCCAGAATGATGTCTTCGATTTCACTCAGCCGGC
AGGTGTCTAGTGGCATGGCCTTCCCGCGCCCCAAGAGACCTGCCCCAGCCCAAGAGGCTGCCACAGAGGGCCCCAG
TGCTGCCCTCTGGTGTGCCCGAGCGGACCTGGCAGGGAGGTGGCAGCCACCCGGCCCAAGACCACCAAGTCGGG
GAAGGCGCTGGCCAAGACTCGGTGGGTGGAGCCTCAGAATGTTGTGGCAGCAGCTGCTGCCAAGGCCAAGATGGC
CACGAGCATCCCTGAGCCGGAGGGTGCAGCTGCTGCCACTGCTCAGCACAGTGTGAGCCCTGGGCCAGGATGGG
AGGCAAGAGGACCAAGAAGGTGAGAGGGGATCCXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXCCTAGTCTGTGGGCAT
CCCTTGTCTGCGTGCCACGGCTGGTCCCTCCATAGCCACAGGACGGGTCCTGGCTGCGTCACCCCTCGGCAGAG
CTTGACCAAGGGGTACAGCTCTATGACCCCTGCTCAGCCCAGGTGCTTTCTCCAACCTCTTCCCCCTCCTGCAGA
CATGCTGAAGGATGTATCAGAGAATATGATGAACATTTCCCTGAGATCATTGAACGAGCAACGTACACCCTGGA
AAAGGTGGGTGCAGGATGGGAGCAGCTCTGTGGGGGAAGAGCGGGCATGGGGGTGCGGTGACCCCTGCAGCCCCCTC
AAGGCCAGTCTCTGGAGCCATCTCTACCTCTCCGACTCTGAGCTTCCACTGCACTGGCAGTTTGACTCGTGCT
TCTTGCCCTCGGCTTCTCTCTCTCATGCTCTCTGAGTGTCTCGCCGTCTGGCCAGGTGGGTCTCATCGCCTCTGC
CAGCGTCAGCTCCACAGCGAAGGTCTTCCGTGTGCTGTCTTCTTCTGCCCTCGCTCAGAGTTTGGATTCCCTTG
CTGAGGAGCAGTTCTAACCCGGAATCACTGTCTGCCGGCAGGATGCCAGCATGGGGTTTGGATCTCACACTCTGT
TTTCTCCCCACGTAGAAAGTTTGGGATCCACCTGAAGGAGATCGACAAGGAAGAACACCTGTATATTCTTGTCTG
CACAGGGACTCCTCAGCTCGCCTCCTTGAAAGTAAGAAGGACACTCCCGAGGCTGATCTCTTGTGTGATCTC
GGCGTATCTTATGAATGGCAACCGTGCCAGCGAGGCTGTCTCTGAGGAGCACTACGCAAGATGGGACTGCGC
CCTGGGTATGATTGGCCTCTCCAGTCTCTCCCTCGGTGCTATCCTCTGGCCAAAGAGGCTCTGGGATTGCAATA
GCCTGGTGGTCTGGCGCAAGGGCGTGGGGTGCTGGGCTCGGTAGAGAGCAAGGATCTCACCAGGCGGATGGG
GAAGCGGTGCTGGACGCTGCTCAGCCCTCTCTCTGCTCTGTGGCCCGAGATGACATCTAAGAGAGCATGAGAG
TCAGGGATTCCATCAAATCCCTACCTGGGGCGTCCCTGACCAACAGTCTCTGGCCTCTGCTGCATGCCAGGCC
TCCACAGCGACTCCCCGGGGGCTGGGAAGTCATAGTCATGCTAGGGAGGGCCCCCTGCCACCGTCTCTGCTCATGG
ATTCTTTTCTTGCCCTCAGGGTGAGGCACCCATTCTCGGCGATCTGAGGAAGCTCATCACAGATGACTTTGTG
AAGCAGAAGTAAGTATCACCTGAGCTAACTGCGGCTCTCACTCGAGCATCCTTTGTGTGCTGGTCTGGCTGAGAA
AGCAGTTCCCTATCCCAAATCTTCAACTGGAGGGATGGGTGCCTCTGACCTGGGAGTGAGTGGCAGTGGGGGGTA
TGCGAGTGTGTGGGGACCGAAGGCCAGGGCGGTCTTGGGAAAAGGGAGCTCACGTACCTGAGAACACGGTGTGG
GGTGTGAAAACGGCCGCCATCACCTTGAGCACCTGCCCTGTAGACTGACACAAGAGTTCCCCCTGGTTTACACCT
AAGGAACCCGGAGCTCAGAGAGGAGACGCTCTGAGCATGGCTCCAGCTGGTAAGGGCCTCAGCCCAACTCTCC
TGATTTTTCAGGCCAGGGGCCACCCCTCTCCCCGTCCCTGGAGGACTTGCCAACGCACAGGCGCGCATGCACACCAA
CAAAGGGTCAGGACTTGAGGAGGATGCCTGGAGCACGCTTCTCCTGGCTGACTGTTTCTTCTCTCCAGTCGTTT
CCTCTGGTGGGCTCTCCAGGGCTCCGCCGGGGTGTGGCCAAGACCCTCGAGGTGGGGTGTGCTCAGAGCAGGGG
GCCTGAAGAATGGCTCCTCTGTTTACAACACACCCCAACAGGAAGCTGGGGTCACTGATGAGGGGCACAAACTT
GTGGCCTCCCTACAGACAAATGCCCTACATGTGGACCCCTGCACCTCCGCATGGCTTCCGGGGAGGACCAATGG
CAAAAGGCTTTGAAGGCCTCACTTTTGAGGCAGAAGTCTGGGAGTGGGTTTGGGAATGAGTGAAGGGCTGGAG
GGGCAGGACAGTCTCTCCAGGAGCTGAGCTGCGGCATCGGGTTGAGGAGGGGGCCCCCTGGAACCCATCCGTTT
AGCAACAGGTCTGCTTGGCTAGCAGCAAAGTTTACTTTCTCTCATGCCAAGGTACCTGGAATACAAGAAGATCC

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FIGURE 6189B

CCAACAGCAACCCACCTGAGTATGAATTCCCTCTGGGCCTCGAGCCCGCCATGAGACCAGCAAGATGAGGGTCCTG
AGATTTCATCGCCAGAAATCAGAACCGAGACCCCGGGAATGGAAGGCTCATTTCCTGGAGGCTGTGGATGATGCT
TTCAAGACAATGGATGTGGATATGGCCGAGGAACATGCCAGGGCCAGATGAGGGCCAGATGAATATCGGGGAT
GAAGCGCTGATTGGACGGTGGAGCTGGGATGACATACAAGTCGAGCTCCTGACCTGGGATGAGGACGGAGATTTT
GGCGATGCCTGGGCCAGGATCCCCCTTGCTTTCTGGGCCAGATACCATCAGTACATTCTGAATAGCAACCGTGCC
AACAGGAGGGCCACGTGGAGAGCTGGCGTCAGCAGTGGCACCAATGGAGGGGCCAGCACCAGCGTCCTAGATGGC
CCCAGCACCAGCTCCACCATCCGGACCAGAAATGCTGCCAGAGCTGGCGCCAGCTTCTTCTCCTGGATCCAGCAC
CGTTGACGAACTGCAGCGATCTTACTGGCCAAGCCAGAGCGCCTCCTCTCAGATTCTTCTCGACACAGCACCCCT
AGGCGGCTTCTTCTGTGTCAGTCGGAGGTGGCATGCAAGATGAAGCTCTCTTTGCTCTTCTGCTTTTCATTTTGTG
CTTTTCCTTGTTGTTTTCATGTTTTGGGTATCAGTGTTACATTAAAGTTGCAAATTAA

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FIGURE 6190

CCCATCCCGTGGGTGGCCGGCGACAAGATGGCAGCAGCGTGTGGAGCGTGAAGGGCCTGGTGGCGGTAATAACC
GGAGGAGCCTCGGGCCTGGGCCTGGCCACGGCGGAGCGACTTGTGGGGCAGGGAGCCTCTGCTGTGCTTCTGGAC
CTGCCCCAACTCGGGTGGGGAGGCCCAAGCCAAGAAGTTAGGAAACAACCTGCGTTTTTCGCCCCAGCCGACGTGACC
TCTGAGAAGGATGTGCAAACAGCTCTGGCTCTAGCAAAAAGGAAAGTTTGGCCGTGTGGATGTAGCTGTCAACTGT
GCAGGCATCGCGGTGGCTAGCAAGACGTACAACCTTAAAGAAGGGCCAGACCCATACCTTGGGAAGACTTCCAGCGA
GTTCTTGATGTGAATCTCATGGGCACCTTCAATGTGATCCGCCTGGTGGCTGGTGAGATGGGCCAGAATGAACCA
GACCAGGGAGGCCAACGTGGGGTCATCATCAACACTGCCAGTGTGGCTGCCTTCGAGGGTCAGGTTGGACAAGCT
GCATACTCTGCTTCCAAGGGGGGAATAGTGGGCATGACACTGCCCATTTGCTCGGGATCTGGCTCCCATAGGTATC
CGGGTGATGACCATTGCCCCAGGTCTGTTTGGCACCCCACTGCTGACCAGCCTCCCAGAGAAAGTGTGCAACTTC
TTGGCCAGCCAAGTGCCCTTCCCTAGCCGACTGGGTGACCCTGCTGAGTATGCTCACCTCGTACAGGCCATCATC
GAGAACCATTCCCTCAATGGAGAGGTTCATCCGGCTGGATGGGGCCATTTCGTATGCAGCCTTGAAGGGAGAAGGCA
GAGAAAACACACGCTCCTCTGCCCTTCCCTTTCCCTGGGGTACTACTCTCCAGCTTGGGAGGAAGCCCAGTAGCCA
TTTTGTAAGTGCCTACCAGTCGCCCTCTGTGCCTAATAAAGTCTCTTTTTTCTCACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 6191

MAAACRSVKGLVAVITGGASGLGLATAERLVGQGASAVLLDLPNSGGEAQAKKLGNNCVFAPADVTSEKDVQTAL
ALAKGKFGRVDVAVNCAGIAVASKTYNLKKGQHTLEDQFQVLDVNLMTFNVIRLVAGEMGQNEPDQGGQRGVI
INTASVAAFEGQVGQAAYSASKGGIVGMTLP IARDLAPIGIRVMTIAPGLFGTPLLTSLEKVCNFLASQVPFPS
RLGDPAEYAHLVQAI IENPFLNGEVIRLDGAIRMQP

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FIGURE 6192A

GCCTGTCTACTGCCGCCGGCGCCGCCGGCCGTCATGGGGTTCTGAACTGATTGAGATTGAGAACTTTAAGTCG
TACAAGGGTCGACAGATTATCGGACCATTTTCAGAGGTTACCGCCATCATTGGACCCAATGGCTCTGGTAAGTCA
AATCTCATGGATGCCATCAGCTTTGTGCTAGGTGAAAAAACCAGCAACCTGCGGGTAAAGACCCTGCGGGACCTG
ATCCATGGAGCTCCTGTGGGCAAGCCAGCTGCCAACCGGGCCTTTGTGAGCATGGTCTACTCTGAGGAGGGTGCT
GAGGACCGTACCTTTGCCCGTGTCAATTGTAGGAGGTTCTTCTGAGTACAAGATCAACAACAAAGTGGTCCAACCTA
CATGAGTACAGTGAGGAATTAGAGAAGTTGGGCATTCTCATCAAAGCTCGTAACCTCCTCGTTTTCCAGGGTGCT
GTGGAATCTATTGCCATGAAGAACCCCAAGAGAGGACAGCTCTATTTGAAGAGATTAGTCGTTCTGGGGAGCTG
GCGCAGGAGTATGACAAAGCGAAAGAAAGGAAATGGTGAAGGCTGAAGAGGACACACAGTTTAATTACCATCGCAAG
AAAAATATTGCCGGCTGAACGCAAGGAAGCAAAAGCAGGAGAAAGAAGAGGCTGACCGGTACCAGCGCTGAAGGAT
GAGGTAGTACGGGCTCAGGTACAGCTGCAGCTCTTTAAGCTTTACCATAATGAAGTGGAAATTGAGAAGCTCAAC
AAGGAACGGCCTCAAAGAACAAGGAGATCGAGAAGGACAAGAAGCGTATGGACAAGGTGGAGGATGAAGTGAAG
GAGAAGAAGAAGGAGCTGGGCAAAATGATGCGGGAGCAGCAGCAGATTGAGAAGGAGATCAAGGAGAAGGACTCA
GAATTGAACCAGAAGCGGCCTCAGTACATCAAAGCCAAGGAGAACACCTCCCACAAAATCAAGAAGCTGGAAGCA
GCCAAGAAGTCTCTGCAGAATGCTCAGAAGCACTACAAGAAGCGTAAAGGTGACATGGATGAGCTGGAGAAGGAG
ATGCTGTGAGTGGAGAAGGCTCGGCAGGAGTTTGAAGAACGGATGGAAGAAGAGAGTCAGAGTCAGGGCAGAGAT
TTGACGTTGGAGGAGAAATCAGGTGAAGAAATACCACCGGTTGAAAGAAGAAGCCAGCAAGAGAGCAGCTACCCTG
GCCCAGGAGCTGGAGAAATCAATCGAGACCAGAAAGCTGACCAGGACCGTCTGGATCTGGAAGAACGGGAAGAAA
GTAGAGACAGAGGCCAAGATCAAGCAAAAGCTGCGGGAAATTGAAGAGAATCAGAAGCGGATTGAGAACTGGAG
GAATACATCACCCTAGCAAGCAGTCCCTAGAAGAGCAGAAGAAGCTAGAGGGGGAGCTGACAGAGGAGGTGGAG
ATGGCCAAGCGGCGTATTGATGAAATCAATAAGGAGCTGAACCAGGTGATGGAGCAGCTAGGGGATGCCCGCATC
GACCGCCAGGAGAGCAGCGCCAGCAGCGAAAGGCAGAGATAATGGAAGCATCAAGCGCCTTTACCCTGGCTCT
GTGTACGGCCGCTCATTGACCTATGCCAGCCACACAAAAGAAGTATCAGATTGCTGTAACCAAGGTTTTGGGC
AAGAACATGGATGCCATTATTGTGGACTCGGAGAAGCAGGCGGGACTGTATTAGTATATCAAGGAGCAGCGT
GGGGAGCCTGAGACCTTCTTGCCCTTGTGACTACCTGGAGGTGAGCCTACAGATGAGAACTCCGGGAGCTGAAG
GGGGCCAAGCTAGTGATTGATGTGATTGCTATGAGCCACCTCATATCAAAAAGGCCCTGCAGTATGCTTGTGGC
AATGCCCTTGTCTGTGACAACGTGGAAGATGCCCGCCGATTGCCTTTGGAGGCCACCAGCGCCACAAGCAGTG
GCACTGGATGGAACCCCTATTCCAGAAGTCAGGAGTGATCTCTGGTGGGGCCAGTGACCTGAAGGCCAAGGCAGG
CGCTGGGATGAGAAAAGCAGTAGACAAGTTGAAAGAGAAGAAGGAGCGCTTGACAGAGGAGCTGAAAGAGCAGATG
AAGGCCAAAACGGAAAAGAGGCAGAGCTGCGTCAGGTGCAGTCTCAGGCCCATGGACTGCAGATGCGGCTCAAGTAC
TCCCAGAGTGACCTAGAACAGACCAAGACACGACATCTAGCCCTGAATCTGCAGGAAAAATCCAAGCTGGAGAGT
GAGCTAGCCAACTTTGGGCCTCGCATTAATGATATCAAGAGGATCATTGAGAGCCGAGAGAGGGAAATGAAAAGAC
TTGAAGGAGAAGATGAACCAGGTAGAGGATGAGGTGTTTTGAAGAGTTTTGTGCGGAGATTGGTGTGCGCAACATC
CGGGAGTTTGAGGAAGAAAAGGTGAAACGGCAGAATGAAATCGCCAAGAAGCGTTTGGAGTTTGAGAATCAGAAG
ACTCGCTTGGGCATTGAGTTGGATTTTGAAGAAGAACCACTGAAGGAGGACCAAGATAAAGTACACATGTGGGAG
CAGACAGTGAAAAAAGATGAAAATGAGATAGAAAAGCTCAAAAAGGAGGAACAAAGACACATGAAGATCATAGAT
GAGACCATGGCTCAGCTACAAGACCTGAAGAATCAGCATCTGGCCAAGAAGTCGGAAGTGAATGACAAGAATCAT
GAGATGGAGGAGATTGTAAGAACTCGGGGGCGCCAACAAGGAAATGACCCATTTACAGAAGGAGGTGACAGCC
ATTGAGACCAAGCTTGAACAGAAGCGCAGTGACCGTCACAACCTTGCTACAGGCCTGTAAGATGCAGGACATTAAG
TTGCCACTGTCAAAAGGCACCATGGATGATATTAGTCAGGAAGAGGGTAGCTCCCAGGGGGAGGACTCAGTGAGT
GGTTCACAGAGAATTTCCAGTATCTATGCACGAGAGGCCCTCATTGAGATTGACTACGGTGATCTGTGTGAGGAT
CTGAAGGATGCCCAGGCTGAGGAAGAGATCAAGCAAGAGATGAACACACTGCAGCAGAAGCTGAATGAGCAGCAG
AGTGTGCTTCAGCGTATTGCCGCCCCCAACATGAAGGCCATGGAAGAGCTGGAAAGTGTCCGAGACAAGTTCCAG
GAGACCTCAGATGAGTTTGAAGCAGCCGAAAGCGAGCAAAGAAGGCCAAGCAGGCATTGGAACAGATCAAGAAG
GAGCGCTTGTACCGCTTCAATGCTTGTGTTTTGAATCTGTGGCTACCAACATTGATGAGATCTATAAGGCCCTGTCC
CGCAATAGCAGTGCCAGGCATTCTGGGCCCTGAGAACCCTGAAGAGCCCTACTTGGATGGCATCAACTACAAC
TGTGTGGCTCCTGGGAAACGCTTCCGGCCTATGGACAACCTGTGAGGCGGGGAGAAGACAGTGGCAGCTCTGGCC
CTGCTCTTTGCCATCCACAGCTACAAGCCAGCCCCCTTCTTCGTCCTGGATGAGATTGATGCTGCCTTGGATAAC
ACCAACATTGGCAAGGTGGCAAATTACATCAAGGAGCAGTCGACTTGAACCTTCCAGGCCATCGTCATCTCTCTC

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FIGURE 6192B

AAGGAGGAGTTCTACACCAAGGCCGAGAGCCTCATTGGAGTCTATCCTGAGCAAGGGGACTGTGTGATCAGCAAA
GTCCTGACCTTCGACCTCACCAAGTACCCAGATGCCAACCCCAACCCCAATGAGCAGTAGCAGTATTTTGGCCCT
CCCGCCCTGTCTGGATCCCTAAGCTGTCCCTCTCCCAATCTCTGGATATTTGACTCCCAACCTTCCCCCTACCTC
CTGGCCCTTTTTGGTGTAGTCATGGGATTTAGGCACTGCTAATCAAGCATGAAGAGGAACAGAGGTGATGTTAGG
TCTGGAGCAAAAATTCTGAACGACAGGGAGTATTCTGGCCTCTGAAAGGAGGTGCTGAGCTGAACAGGGCCATC
TGTTTCATCACACACACCCCTTCCTCCCCCTCATCACCCATAATCGTGGGCCCTTGGGCCTCTTGCCCACTGTG
TGTGTGGGTATGTATGTGTGTATGTATGTATCCGCATGTGTGCATGTGAGTATGTTTGCAAAATAATAAAGGATA
TTGGAGACCTGTTTTAGAAGGAGCCTAGGCTGAATTTGATTCCAAGAGAGCTTAGGATGACAGCACCCCTGAGCT
GGGCAAAGGTACTCAGGACCTCATAGGAGTCTTAGGCAGTTACCTGAAACTGCCTTCATTCACCTCATTGTGTAT
TCATTCATTTATGTATTCATCAGACACATACCGAACACCCTCTATTTGTCAGGCTCTGTGCTTGGAATACAGAGT
TGAATCAGACATGATCTCTACCCTCCTAGTAAGGAGATACAGTGGGTTTCATGAATGACTATAGTTAGCTGAATGT
CATATGTACTTTGAATTTGAGAAGTGGGTGATCCCCTCTAGGCTTCCTGGAGGTCACATTTAAGCTAGACCTTGA
CAAATTGGTAGGATTTGGTCAGGCACTAGGAGTGGAGCATGAGCTCTGGGGACAGACAGTTATGGGTTCTGGTCC
CACTTTTTATCACTTACTAGTTGTTTGACCTTGGGCAAGTCATTTGACCTTCTGTGCCTCAGTTTCCTCATCTGT
AAAATGGGGCTAACAATATTACCTACCTCATTAGGATTTAATGATGTCAAGCTCCTCACTGGAGGCCTTATCCCTT
CGTGGAGCCCACTAGGTGCCGACCCCTCAGAATATAACCCTCATGCCTGGACCCCTGAGAGCTTCTGATCCCAGC
TATTAGGGACAGAAGAAGCCTCCAAATCTGGAAGGTGCTGAATGCCCTGCTGACTGGGAAAGTTTCAGGGCACTG
ATGGGGTCTACCTGGTAAGCGGAGGGCCTGAGGAAACCTGTAGCTTCAATCATGTCTGGTAACCGGGTGCCTGAG
CCCCAATCTGGGTTGTGAGGAAATAGGGGAGAGGTATCCTGGGCCACATCCCAGCCTAACACCTGTGAGGTTCA
TTAGGAACCTAACCTCATTAGCTATAAGGATCATGCAGAGGCAGCAAAGCCGGGTGCGATGAGCTCAGCCTTTAC
TCATTCACATACACCATCACACTTTAATTCCAATCTGTATATTGCTTTTTAAAAGTTAAGTCCATTCTAATTACC
CAAATATGCATGAATTC

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FIGURE 6193

MGFLKLI EIENFKSYKGRQIIIGPFQRF TAIIGPNGSGKSNLMDAISFVLGEKTSNLRVKTLRDLIHGAPVGKPAA
NRAFVSMVYSEEGAEDRTFARVIVGGSSEYKINNKVVLHEYSEELEKLGILIKARNFLVFQGAVESIAMKNPKE
RTALFEEISRSGELAQEYDKRKKEMVKAEDTQFNYHRKKNIAAERKEAKQEKEEADRYQRLKDEVVRAQVQLQL
FKLYHNEVEIEKLNKELASKNKEIEKDKKRMDKVEDELKEKKELGKMMREQQIEKEIKEKDSELNQKRPQYIK
AKENTSHKIKKLEAAKSLQNAQKHYYKKRKGDMDELEKEMLSVEKARQEFEEERMEEESQSQGRDLTLEENQVKKY
HRLKEEASKRAATLAQELEKFNRDQKADQDRLDLEERKKVETEAKIKQKLREIEENQKRIEKLEEYITTQSLSLE
EQKKLEGEELTEEVEMAKRRIDEINKELNQVMEQLGDARIDRQESSRQQRKAEIMESIKRLYPGSVYGRDLIDLCQP
TQKKYQIAVTKVLGKNMDAIIVDSEKTGRDCIQYIKEQRGEPETFLPLDYLEVKPTDEKLRELKGAKLVIDVIRY
EPPHIKKALQYACGNALVCDNVEDARRIAFGGHQRHKTVALDGTLFQKSGVISGGASDLKAKARRWDEKAVDKLK
EKKERLTEELKEQMKAKRKEAELRQVQSQAHLQMLKYSQSDLEQTKTRHLALNLQEKSKLESELANFGPRIND
IKRIIQSREREMKDLKEKMNQVEDEVFEEFCREIGVRNIREFEEKVKRQNEIAKKRLEFENQKTRLGIQLDFEK
NQLKEDQDKVHMWEQTVKKDENEIEKLKKEEQRHMKIIDETMAQLQDLKNQHLAKKSEVNDKNHEMEEIRKKLGG
ANKEMTHLQKEVTAIETKLEQKRSRHNLLQACKMQDIKLPLSKGTMDDISQEEGSSQGEDSVSGSQRISSIYAR
EALIEIDYGDLCEDLKDAQAEIEIKQEMNTLQQKLNEQQSVLQRIAAPNMKAMEKLESVRDKFQETSDEFEAARK
RAKKAKQAFEQIKKERFDRFNACFESVATNIDEIYKALSRNSSAQAF LGPENPEEPYLDGINYNVCVAPGKRFRPM
DNLSGGEKTVAALALLFAIHSYKPAPFFVLDEIDAALDNTNIGKVANYIKEQSTCNFQAIVISLKEEFYTKAESL
IGVYPEQGD CVISKVLTDFDLTKYPDANPNPNEQ

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FIGURE 6194

CCGGGACGTCACGTGGACTGGGGCCGGATAATGCGGGCGCTGCAGAAGATGCGCGAGCTCTTTTCCGGGCTGGG
GTCTGCGCGGCCCTGGAGGCCTGGCCGGCCTTGACAGATCGCTGTGGAGAATGGCTTCGGGGGTGTGCACAGCCAG
GAGAAGGCCAAGTGGCTGGGGGGTGCAGTGGAGGATTACTTCATGCGCAATGCTGACTTGGAGCTAGATGAGGTG
GAAGACTTCCTTGGAGAGCTGTTGACCAACGAGTTTGATACAGTTGTGGAAGACGGGAGTCTGCCCCAGGTGAGC
CAGCAACTGCAGACCATGTTCCACCACTTCCAGAGGGGTGATGGGGCTGCTCTGAGGGAGATGGCCTCCTGCATC
ACTCAGAGAAAATGCAAGGTCACAGCCACTGCACTTAAGACAGCTAGAGAGACTGATGAGGATGAAGATGATGTG
GACAGTGTGGAAGAGATGGAGGTCACAGCTACGAATGATGGGGCTGCTACAGATGGGGTCTGCCCCCAGCCTGAA
CCCTCTGATCCAGACGCTCAGACTATTAAGGAAGAGGATATAGTGAAGATGGCTGGACCATTGTCCGGAGAAAA
AAATGAGTGGGGATGATTGGAATGGCTTTGGGCCCTTATTTGCTGTTCTAAGAGTTGTCTGTAGGGGTTTTTTT
TTTGAGGATTGCAGACCTGTGGACTGGTTACCCCATCTCCACCCTCTCCCCTGTTCTCTGTCTGGCTCCCTCCA
GGGCAAGGAAAACCTAGGGTCCTTGGTCTTGGGGGTGGGGGGACCTTTTCCAGCATATTCCTTGGGCCTTTAGT
TAACATCCGAGTGACGAAGCCGGTTCCCCAGTACAGTGTCTTTTGGGTGCGGTCATTGTGAGGAAGGGGATGAG
TGAGTGTGGGTGTGGCTGGAGGAGGAGCTAGATGCCGGTGGACAGTGGGCAGGTGGATTTGGGGAGGAGAGGATC
AGCAGCAGCAGCAGTACTCAGTGATAGGGGGCTGGCTGGGTGAGGAATGGTGAGATGAACATGCAAGTGAAGAG
AGAATAGTTGAAAATGTGAATGAAAGTAGCTCTGGAGCCTCTCCCTTACCCACCCACACACACGCAACAGCTC
TGTACCCCTGCCCAGAACTTGGAACCTCCCAGGAATGCTGCCTTCCTTCAGCCCAGCCTCCAGTCCTGGGTTCCT
TCAGGAATTCGAAGACCTTGCTAGGTGGTGAGCTTGGAAGAGCTGGGCTTTGTTTTCTGTCTCCTCTAACCTCT
TTCCTTACTCCTTATCCCATCCCATTTGAGTTCAGGGGTGAGGCTTAAGATCTTAATAAATAATACCTTACTGCT
TAATCTGTGGCTTGACCTGTGAGTAGTACCTTAGAATCAGCCTTCTGGGAGCTCAGCTTCAGAGTTTACAAGGG
AGCAGTTTCTGGGCCACCCTAGCAGCCTGGTACTTTGGACAACCAAACAGATGAACGAACGGAGCACAGCAGTG
CTATGAAAGTTACTGTAAGCCTGAAATAAACTGTATTTTTCT

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FIGURE 6195

MAGAAEDARALFRAGVCAALEAWPALQIAVENGFGGVHSQEKAKWLGGAVEDYFMRNADLELDEVEDFLGELLTN
EFDIVVEDGSLPQVSQQLQTMFHHFQRGDGAALREMA SCITQRKCKVTATALKTARETDEDEDVD SVEEMEVIA
TNDGAATDGVCPQPEPSDPDAQTIKEEDIVEDGWTIVRRKK

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FIGURE 6196

GATCCGGAAGTCGGAGCCTAGCTGCGCGAGAGTTTCTGCTCGCTCAACCGAGTTGTCGTGTTGCCCTCGCTTCTC
AGATCCCCGCCGGAAGTGAAGAGAGCAAGCAGATTTGAACCTATCTGCTTTCAAGCTGGTCATCATGATGAACT
TAGACACAAAAATAAAAAGCCAGGTGAAGGTTCCAAGGGCCACAAGAAGATAAGTTGGCCCTACCCTCAGCCTGC
AAAGCAAAATGGGAAGAAAGCAACCTCCAAAGTGCCCTCTGCACCTCATTTTGTTCACCCCAATGATCATGCCAA
TCGAGAGGCTGAATTAAGAAGAAGTGGGTTGAGGAGATGAGGGAGAAGCAGCAAGCCGCCGGGAGCAAGAAAG
ACAAAACGCAGGACCATTGAGAGCTACTGTCAGGATGTCCTAAGACGCCAGGAGGAGTTTGAGCATAAGGAGGA
AGTTTTGCAGGAATTAATATGTTTCTCAGCTGGATGACGAGGCCACGAGGAAGGCTTATTACAAGGAGTTCCG
TAAGGTGGTGAATACTCTGATGTGATTCTGGAAGTCCTGGATGCCAGAGACCCATTAGGCTGCCGCTGCTTCCA
AATGGAGGAGGCTGTCTGCGAGCACAAAGGCAACAAGAAGCTGGTCTTGAACAAGATTGACCTGGTCCC
CAAGGAGGTTGTGGAGAAATGGCTGGATTACCTTCGGAATGAGTTGCCAACCGTGGCTTTCAAGGCCAGTACCCA
GCATCAGGTCAAAAACCTGAATCGTTGCAGTGTGCCAGTAGATCAGGCCTCTGAGTCACTGCTGAAAAGCAAAGC
CTGCTTTGGAGCTGAAAACCTCATGAGGGTTCTGGGGAACATTGCCGCTTGGTGAAGTGCGCACCCACATTGC
TGTGGGTGTTGTGGGTCTTCCCAATGTTGGGAAGAGCAGCCTGATCAATAGCCTGAAGCGCAGCCGCGCATGCAG
CGTGGGAGCTGTTCTGGAATTACCAAAATTCATGCAGGAGGTCTACCTGGACAAGTTTATCCGGCTCTTGGATGC
TCCAGGCATTGTCCCAGGGCCCAACTCAGAGGTGGGCACCATCTGCGTAACTGCGTCCACGTCCAGATGAGGCTGC
AGACCCTGTGACCCCACTGGAGACCATCTGCAGCGTGCACCTGGAGGAGATTTCCAATATTATGGCGTCTC
TGGGTTCCAGACCACTGAGCACTTTCTGACGGCAGTGGCCACCGTTTGGGGAAGAAGAAGAAGGGAGGCTTATA
TAGTCAGGAACAGGCGGCCAAAGCTGTCTAGCTGACTGGGTGAGCGGGAAGATCAGCTTCTATATACCACCACC
AGCCACTCACACTCTGCCCACCCATCTCAGTGCTGAGATCGTTAAGGAAATGACCGAGGTCTTTGACATCGAGGA
TACTGAGCAGGCCAATGAAGACACCATGGAATGCTTGGCCACCGGAGAATCTGATGAGCTGTTGGGTGACACGGA
CCCCTTGAAATGGAGATCAAGTTGCTCCATTCTCCGATGACGAAAAATAGCAGATGCCATTGAAAAATAAACAC
CGTGTATAAGATTGGAGATCTCACTGGGTATTGCACCAATCCGAACCGTCATCAGATGGGGTGGGCTAAACGCAA
TGTGGACCACCGCCCTAAGAGCAACAGTATGGTGGATGCTGCTCAGTGGACCGCCGCTCAGTGCTGCAGAGGAT
CATGGAGACGGACCCCTGCAACAGGGCCAGGCTCTGGCATCTGCCCTGAAAAATAAGAAAGAAGATGCAGAAACG
TGCAGATAAAATCGCCAGCAAGCTGTCTGATTCCATGATGTCTGCTCTCGACCTCTCTGGCAATGCTGATGATGG
TGTTGGTGACTAATCGACTGATCTCACTTCCCTTCCGCTCCAAGCACCAGTTCCGGTGGTACGGGGGAATACCAG
TGAAATAGTTTGGTTCTCCCTGAAGCATCTGCATATTGAAAGAACGCTTTCCCCACTGTGTGTCTTCTCCCCCTC
CTCCAGTAAAAACAGTCCCGGCTAGGTGCTGTGGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGG
CAGATCACCTGAGGTGAGGAGTTGAGACACGCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAA
AAAATTTAGCCGTGCTTAGTGACCTATAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCCTGAACCT
GGGAGACTAAGGCAGGAGAATCGCCTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCAGACGGCACCATTCAGCT
CTAGCCTGGGCAACAACACGAACTCCGTCCC

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FIGURE 6197

TAGAGAAGGCAGACGCATCCCGAACTCGCTGGAGGACAAGGCTCAGCTCTTGCCAGGCCAAATTGAGACATGTCT
GACACAAGCGAGAGTGGTGCAGGTCTAACTCGCTTCCAGGCTGAAGCCTCAGAAAAGGACAGTAGCTCGATGATG
CAGACTCTGTTGACAGTGACCCAGAATGTGGAGGTCCCAGAGACACCGAAGGCCTCAAAGGCACTGGAGGTCTCA
GAGGATGTGAAGGTCTCAAAGCCTCTGGGGTCTCAAAGGCCACAGAGGTCTCAAAGACCCAGAGGCTCGGGAG
GCACCTGCCACCCAGGCCTCATCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAGCTGAAAACAAGAGTCTA
GCAGCTGACACCAAGAAACAGAATGCTGACCCGAGGCTGTGACAATGCCTGCCACTGAGACCAAAAAGGTCAGC
CATGTGGCTGATACAAAGGTCAATACAAAGGCTCAGGAGACTGAGGCTGCACCCTCTCAGGCCCCAGCAGATGAA
CCTGAGCCTGAGAGTGCAGCTGCCCAGTCTCAGGAGAAATCAGGATACTCGGCCCAAGGTCAAAGCCAAGAAAGCC
CGAAAGGTGAAGCATCTGGATGGGGAAGAGGATGGCAGCAGTGATCAGAGTCAGGCTTCTGGAACCACAGGTGGC
CGAAGGGTCTCAAAGGCCCTAATGGCCTCAATGGCCCGCAGGGCTTCAAAGGGGTCCCATAGCCTTTTGGGCCCGC
AGGGCATCAAGGACTCGGTTGGCTGCTTGGGCCCGGAGAGCCTTGCTCTCCCTGAGATCACCTAAAGCCCGTAGG
GGCAAGGCTCGCCGTAGAGCTGCCAAGCTCCAGTCATCCCAAGAGCCTGAAGCACCACCACCTCGGGATGTGGCC
CTTTTGCAAGGGAGGGCAAATGATTGGTGAAGTACCTTTTGGCTAAAGACCAGACGAAGATTCCCATCAAGCGC
TCGGACATGCTGAAGGACATCATCAAAGAATACACTGATGTGTACCCGAAATCATTGAACGAGCAGGCTATTCC
TTGGAGAAGGTATTTGGGATTCAATTGAAGGAAATTGATAAGAATGACCACTTGTACATTCTTCTCAGCACCTTA
GAGCCCACTGATGCAGGCATACTGGGAACGACTAAGGACTCACCCAAGCTGGGTCTGCTCATGGTGCTTCTTAGC
ATCATCTTCATGAATGGAAATCGGTCCAGTGAGGCTGTCATCTGGGAGGTGCTGCGCAAGTTGGGGCTGCGCCCT
GGGATACATCATTTACTCTTTGGGGACGTGAAGAAGCTCATCACTGATGAGTTTGTGAAGCAGAAGTACCTGGAC
TATGCCAGAGTCCCCAATAGCAATCCCCCTGAATATGAGTTCTTCTGGGGCCTGCGCTCTTACTATGAGACCAGC
AAGATGAAAGTCTCAAGTTTGCCTGCAAGGTACAAAAGAAGGATCCCAAGGAATGGGCAGCTCAGTACCGAGAG
GCGATGGAAGCGGATTTGAAGGCTGCAGCTGAGGCTGACAGCTGAAGCCAAGGCTAGGGCCGAGATTAGAGCTCGA
ATGGGCATTGGGCTCGGCTCGGAGAATGCTGCCGGGCCCTGCAACTGGGACGAAGCTGATATCGGACCCTGGGCC
AAAGCCCGGATCCAGGCGGGAGCAGAAGCTAAAGCCAAAGCCCAAGAGAGTGGCAGTGCCAGCACTGGTGCCAGT
ACCAGTACCAATAACAGTGCCAGTGCCAGTGCCAGCACCAGTGGTGGCTTCAGTGCTGGTGCCAGCCTGACCGCC
ACTCTCACATTTGGGCTCTTCGCTGGCCTTGGTGGAGCTGGTGCCAGCACCAGTGGCAGCTCTGGTGCTGTGGT
TTCTCTACAAGTGAAGATTTTAGATATTGTTAATCCTGCCAGTCTTTCTCTTCAAGCCAGGGTGATCCTCAGAA
ACCTATCCAACACAGCACTCTAGGCAGCCACT

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FIGURE 6198

MSDTSESGAGLTRFQAEASEKDSSSMMQTLLTVTQNVEVPETPKASKALEVSEDEVKVS KASGVSKATEVSKTPEA
REAPATQASSTTQLTDTQVLAAENKSLAADTKKQNADPQAVTMPATETKKVSHVADTKVNTKAQETEAAPSQAPA
DEPEPESAAAQSQENQDTRPKVKAKKARKVKHLDGEEDGSSDQSQASGTTGGRRVSKALMASMARRASRGPIAFW
ARRASRTRLAAWARRALLSLRSPKARRGKARRRAAKLQSSQEPEAPPPRDVALLQGRANDLVKYLLAKDQTKIPI
KRSDMLKDIIKEYTDVYPEIIERAGYSLEKVFQIQLKEIDKNDHLYILLSTLEPTDAGILGTTKDS PKLGLLMVL
LSIIFMNGNRSSEAVIWEVLRKLGLRPGIHHSIFGDVKKLITDEFVKQKYLDYARVPNSNPPEYEFFWGLRSYYE
TSKMKVLKFACKVQKKDPKEWAAQYREAMEADLKAAAEAAAEAKARAEIRARMGIGLSENAAGPCNWDEADIGP
WAKARIQAGAEAKAKAQESGSASTGASTSTNNSASASASTSGGFSAGASLTATLTFGLFAGLGAGASTSGSSGA
CGFSYK

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FIGURE 6199

TGGCCAACCTTCTGAACAGGAAGCAGTTCGCTCGCGCCTAGGTTGGCGCGGGCTGGGAGGTGTTCCAGCCCTTTAA
GATGTTGCGCGTGGTGAGCTGGAACATCAATGGGATTTCGGAGACCCCTGCAAGGGGTGGCAAATCAGGAACCCAG
CAACTGTGCCGCCGTGGCCGTGGGGCGCATTGTTGGACGAGCTGGATGCGGATATCGTCTGTCTCCAGGAAACCAA
AGTGACCAGGGATGCACTGACAGAGCCCCCTGGCTATCGTTGAGGGTTATAACTCCTATTTTCAGCTTCAGCCGCAA
CCGTAGCGGCTATTCTGGTGTAGCCACCTTCTGTAAGGACAATGCTACCCAGTGGCTGCTGAAGAAGGCCTGAG
TGGCCTGTTTGCCACCCAGAATGGGGATGTTGGTTGCTATGGAAACATGGATGAGTTTACCCAAGAGGAACTCCG
GGCTCTGGATAGTGAGGGCAGGGCCCTCCTCACACAGCATAAGATCCGCACATGGGAAGGTAAGGAGAAGACCTT
GACCCTAATCAACGTGTACTGCCCCATGCGGACCCCTGGGAGGCCTGAGCGGCTAGTCTTTAAGATGCGCTTCTA
TCGTTTGCTGCAAATCCGAGCAGAAGCCCTCCTGGCGGCAGGCAGCCATGTGATCATTCTGGGTGACCTGAATAC
AGCCCACCGCCCCATTGACCACTGGGATGCAGTCAACCTGGAATGCTTTGAAGAGGACCCAGGGCGCAAGTGGAT
GGACAGCTTGCTCAGTAACTTGGGGTGCCAGTCTGCCTCTCATGTAGGGCCCTTCATCGATAGCTACCGCTGCTT
CCAACCAAAGCAGGAGGGGGCCTTACCTGCTGGTCAGCAGTCACTGGCGCCCGCCATCTCAACTATGGCTCCCG
GCTTGACTATGTGCTGGGGGACAGGACCCCTGGTCATAGACACCTTTCAGGCCTCTTTCCTGCTGCCTGAGGTGAT
GGGCTCTGACCACTGCCCTGTGGGTGCAGTCTTGAGTGTGTCCTCTGTGCCTGCAAAACAGTGCCCACCTCTGTG
CACCCGCTTCTCCTGAGTTTGAGGCACCCAGCTCAAGATCCTTCGCTTCCTAGTTCCTCTCGAACAAGTCC
TGTGTTGGAGCAGTCGACGCTGCAGCACAACAATCAAACCCGGGTACAGACATGCCAAAACAAAGCCCAAGTGG
CTCAACCAGGCCTCAGCCAGTCAGGTTGGCTCTAGCAGAGGCCAGAAAAACCTGAAGAGCTACTTTCAGCCCTC
CCCTAGCTGTCCCAAGCCTCTCCTGACATAGAGCTGCCTAGCCTACCACTGATGAGCGCCCTCATGACCCCGAA
GACTCCAGAAGAGAAGGCAGTGGCCAAAGTGGTGAAGGGGCAGGCCAAGACTTCAGAAGCCAAAGATGAGAAGGA
GTTACGGACCTCATTCTGGAAGTCTGTGCTGGCGGGGCCCTTGCGCACACCCCTCTGTGGGGGCCACAGGGAGCC
ATGTGTGATGCGTACTGTGAAGAAGCCAGGACCCAACCTTGGGCCGCCGCTTCTACATGTGTGCCAGGCCCCGGG
TCCTCCCCTGACCCCTCCTCCCGGTGCAACTTCTTCTCTGGAGCAGGCCAGCTGGAACCAATGGAGGCCTGGG
GACATCTGGCATGGTCAACCCTGCACATGATCTGAGGCCAGCTCCCTTCCCTGAGCTGCCTCCTGCTTCTCCT
CAAAGTCTCCTACCCCTTCTTCTCCTCTTTTAAGCCCTCTCTTCTCGCTTTCCTTCTACCTAGCTCCTTGTGG
TGAGCTTCTTGTGCCCTTAATCCTGTGACCCAGCCCTTACACCACTTTCACCTTCTGTCCGAAGTACACGGAC
ACTAGCTGCCCCAGGAAGTTGTGTGATTTTAAATCACTTCTGTCTTTGCTGGAAAGTGTATTTGTGCATAAATAA
AGTCTGTGTATTTGTTTCAGGGTTGCAAAAAAAAAAAAAA

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FIGURE 6200

MLRVVSWNINGIRRPLQGVANQEPSNCAAVAVGRILDELDADIVCLQETKVTRDALTEPLAIVEGYNSYFSFSRN
RSGYSGVATFCKDNATPVAAEEGLSGLFATQNGDVGCYGNMDEFTQEELRALDSEGRALLTQHKIRTWEGKEKTL
TLINVYCPHADPGRPERLVFKMRFYRLLQIRAEALLAAGSHVILGDLNTAHRPIDHWDAVNLECFEEDPGRKWM
DSLNLGQCQSASHVGPFIDSYRCFQPKQEGAFTCWSAVTGARHLNYGSRLDYVLGDRTLVIDTFQASFLLEPEVM
GSDHCPVGAVLSVSSVPAKQCPPLCTRFLPEFAGTQLKILRFLVPLEQSPVLEQSTLQHNNTQTRVQTCQNKQVR
STRPQPSQVGSSRGQKNLKSYPSPSPCPQASPDIELPSLPLMSALMTPKTPEEKAVAKVVKQAKTSEAKDEKE
LRTSFWKSVLAGPLRTPLCGGHREPCVMRTVKKPGPNLGRRFYMCARPRGPPTDPSSRCNFFLWSRPS

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FIGURE 6201

GCCACCGCCAGCAGGGAGGCGGAGGGCTAGCGAGCCAAGCGGTGGGGACGCCGCTGCCCTTCCTCTTTGCCTGTCT
CGCCGCCCTCCTAGACACGCTCCTCATCTACGGATCCTACCCTCCCCGCTCTTGCAAGCATTCACTCGGCCGGTC
GCCTGCTGACCTCCTTCGCCACAGGCTCGTAGCGGAGGCAGCAGCGAGCAGGCATGAAGACCCCCAACGCACAG
GAAGCCGAAGGGCAACAAACCAGGGCAGCTGCAGGACGGGCCACTGGGTCTGCAAACATGACAAAGAAAAAAGTC
TCCAAAAGAAGCAGAGAGGGCCGACCTTCATCCCAGCCCCGAGGAACATCGTGGGCTGCAGAATTTCTCATGGA
TGGAAGGAAGGAGATGAGCCCATCACGCAGTGGAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTT
TATCTGGTGAAATATGATGGAATTGACTGTGTCTATGGACTGGAACCTTCACAGAGATGAAAGGGTTTTGTCTCTT
AAAATTCCTTCTGACAGGGTGGCATCATCTCACATTAGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCA
GTGGAACATATGTTTGAGGGAGAGCATGGTTCTAAGGATGAATGGAGGGGGATGGTCTTAGCTCAAGCACCTATC
ATGAAAGCCTGGTTTTATATTACCTATGAGAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAG
GAAGGTGACCTCCGCATCATGCCAGAATCCAGTGAGTCTCCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGAT
GGCCTAATAGGTAAGCATGTGGAATATACCAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTACCCAAGTG
GAAGCCAAACCTCTGTGTATTTTCATCAAGTTTGATGATGATTTCCATATCTATGTCTACGATTTGGTGAAAAAG
TCCTAACTGTTAGGGTAAAATTTGGCACATGTGTGGAACAAATGTATAATTTGTAGACATGCAAAAAATGTTGC
CTTTCAGTGATTGAAAGCTTATGGAATCCCTGATAACTAAACATCTTTGCCAGCATTAACTGTTGTTTTGCTCT
AAAAAATACAACTTGTGTGTACATG

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FIGURE 6202

MKTPNAQEAEQQOTRAAAGRATGSANMTKKKVSQKKQGRPSSQPRRNIVGCRISHGWKEGDEPITQWKGTVLDQ
VPINPSLYLVKYDGIDCVYGLELHRDERVLSLKILSDRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGM
VLAQAPIMKAWFYITYEKDPVLYMYQLLDDYKEGDLRIMPESSESPTTEREPGGVVDGLIGKHVEYTKEDGSKRI
GMVIHQVEAKPSVYFIKFDDDFHIYVYDLVKKS

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FIGURE 6203

GGCAGTGGGGTTACAGACAGCACCAGAGGCACTCAGGGCAGGAGGGTAGTGGGTGCTGGTCAAGGCCGCTTTGC
AGGGGATTGGGAGTGGATGCTAGTGGCAGTAAAGGGTAAAGGGAGGGCAGTGGGCTCTGAGCTAGGAGGAGGTGG
CCCAGCCACTTCTGCAGAGTTCCTAACCCAGACAGCTCTACTGCACCACCCAGCCCTTCCCCACAGCCCAAAG
GAACTTAAGAGGGAGAGCACTGCGGGCATGCAGCCAGGATTTCCAGCATTGCTTCCAGGCTCCTAGGGGAAACTT
AGGCACTAGCGCAGACTACATCCAGACATGGCTATAGGGAAAAGTTTGCCTTGTGGCACACTGGGTGTGTCTCTC
TATCCTCTCTCCTCCCCAGCAGGCATGAAGACCCCAACGCACAGGAAGCCGAAGGGCAACAAACCAGGGCAGC
TGCAGGACGGGCCACTGGGTCTGCAAACATGACAAAGAAAAAGTCTCCAAAAGAAGCAGAGAGGCCGACCTTC
ATCCAGCCCCGAGGAACATCGTGGGCTGCAGAATTTCTCATGGATGGAAGGAAGGAGATGAGCCCATCACGCA
GTGGAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTTTATCTGGTGAATATGATGGAATTGACTG
TGTCTATGGACTGGAACCTTACAGAGATGAAAGGGTTTTGTCTCTTAAATTTCTTTCTGACAGGGTGGCATCATC
TCACATTAGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCAGTGAACACATGTTTGAGGGAGAGCATGG
TTCTAAGGATGAATGGAGGGGGATGGTCTTAGCTCAAGCACCTATCATGAAAGCCTGGTTTTATATTACCTATGA
GAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAGGAAGGTGACCTCCGCATCATGCCAGAATC
CAGTGAGTCTCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGATGGCCTAATAGGTAAGCATGTGGAATATAC
CAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTACCAAGTGGAACCAAACCCCTCTGTGTAATTCATCAA
GTTTGATGATGATTCCATATCTATGTCTACGATTTGGTGAAAAAGTCCTAACTGTTAGGGTAAATTTGGCACA
TGTGTGGAACAAATGTATAATTTGTAGACATGCAAAAAATGTTGCCTTTCAGTGTACTGAAAGCTTATGGAATC
CCTGATAACTAAACATCTTTGCCAGCATTAACCTGTTGTTTTGCTCTAAAAAATACAAATTTGTGAATACATGACA
TGCTGTCTGTAAAGCCCTTTGTCTTGTGAAAAGTTCGGGTGTGTTTGGTAGATGGGGCATGGAAGGAACGAACAG
CTGTCAATTTCGGCTGTGAATAAAGTTCAGCTAGAATCATAATCAGTCATTTAAAAATGGCACTGGATTTAGCTG
GTCTGGTCTGGAGGGGGCAGGGGAAGGAACAAGAGATTGGCTGTCTTGGGGAGAGAGGAGGAGTGACTGCTTAG
GAAGAGGTGGAAGGGCCAGAAAGGGAGGGCTCCTTGGGGGAGGGGATGACCTATGAGAAGGAAACATCCAAC
TCAGAAGGAAGACTAACAGAGGGGAGAGTGAGATCTTGGGGCTTAGAGGAAAATAGAATAAACTGAGTAGAGAGGA
ACACAAAGAAGCTTAGAAGAGGGTCCAGAGTAAGGTGGAGAAGGATCAACCTGACAGGGATCTGGGAGAGGCTAA
AGGATACACAAAGGAAGAGGCTATGTGGGTTAGGGTGTGAGGGATTAGAAGAGGGCCACTGAGGAAGGAGGAA
TTCAAAGAAGAAAAGACTGACAGAGGGAGTGAGAATACAGGAAAAGAGTTGTGGGGTATGGGGCCCATGAGAGATC
GGAAGGCCCAGGAAAATGTTGGACTTCTGGTAGTGTCCACATTGCTCTTCTGGCTCTATGCACAAAGGAAGTGG
CAACTGTCAAAGATGCCAGATGCATTGGAGGTTCACTAGAAGAGCATGTTGACAGGAATGACTCAGTCAAGTTAA
TCAGGAGCCAAGTTTATGCCATAAGGCTTTTCTGTTTCAGGGAGTTAATGACACACTTGTCCAGCAGAAACCC
AATGCTCAGCCTAAACACGCTAACATGGTGCCCCACATGTGCTGGGCTGTGGGCTGCCTCCTCACATTTGTCTCTG
CGCTAGATAAGCAATCTTGGTAGAGGATGGGTTAGTGGGGCTCTCAGAACTTAAGAGATGTGCCATCTTGCAATTT
GGAAAGTACTTTATCCAGAAAAAATGAAATCTTACTGAACTCAGGTACAGCAGTCTCATCACTCCTATTCTCTCT
GCTGGAATGTTTGTCTTCTATCTAGAGATGAGGGGCATCAGAGGACTGAGCCTAGTGTCTCTCTCGAG

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FIGURE 6204

GGTAGCAGGAGGCTGGAAGAAAGGACAGAAGTAGCTCTGGCTGTGATGGGGATCTTACTGGGCCTGCTACTCCTG
GGGCACCTAACAGTGGACACTTATGGCCGTCCCATCCTGGAAGTGCCAGAGAGTGTAACAGGACCTTGGAAGGG
GATGTGAATCTTCCCTGCACCTATGACCCCTGCAAGGCTACACCCAAGTCTTGGTGAAGTGGCTGGTACAACGT
GGCTCAGACCCGTGTCACCATCTTTCTACGTGACTCTTCTGGAGACCATATCCAGCAGGCAAAGTACCAGGGCCGC
CTGCATGTGAGCCACAAGGTTCCAGGAGATGTATCCCTCCAATTGAGCACCCCTGGAGATGGATGACCGGAGCCAC
TACACGTGTGAAGTCACCTGGCAGACTCCTGATGGCAACCAAGTCGTGAGAGATAAGATTACTGAGCTCCGTGTC
CAGAACTCTCTGTCTCCAAGCCCACAGTGACAACCTGGCAGCGGTTATGGCTTCACGGTGCCCCAGGGAATGAGG
ATTAGCCTTCAATGCCAGGCTCGGGGTTCTCCTCCCATCAGTTATATTTGGTATAAGCAACAGACTAATAACCAAG
GAACCCATCAAAGTAGCAACCCTAAGTACCTTACTCTTCAAGCCTGCGGTGATAGCCGACTCAGGCTCCTATTTT
TGCACTGCCAAGGGCCAGGTTGGCTCTGAGCAGCACAGCGACATTGTGAAGTTTGTGGTCAAAGACTCCTCAAAG
CTACTCAAGACCAAGACTGAGGCACCTACAACCATGACATACCCCTTGAAAGCAACATCTACAGTGAAGCAGTCC
TGGGACTGGACCACTGACATGGATGGCTACCTTGGAGAGACCAAGTGTGGGCCAGGAAAGAGCCTGCCTGTCTTT
GCCATCATCCTCATCATCTCCTTGTGCTGTATGGTGGTTTTTACCATGGCCTATATCATGCTCTGTGCGGAAGACA
TCCCAACAAGAGCATGTCTACGAAGCAGCCAGGGCACATGCCAGAGAGGCCAACGACTCTGGAGAAACCATGAGG
GTGGCCATCTTCGCAAGTGGCTGCTCCAGTGATGAGCCAACTTCCCAGAATCTGGGCAACAACACTACTCTGATGAG
CCCTGCATAGGACAGGAGTACCAGATCATCGCCAGATCAATGGCAACTACGCCCGCCTGCTGGACACAGTTCCT
CTGGATTATGAGTTTCTGGCCACTGAGGGCAAAAGTGTCTGTATAAAATGCCCCATTAGGCCAGGATCTGCTGAC
ATAATTGCCTAGTCAGTCCTTGCCCTTCTGCATGGCCTTCTTCCCTGCTACCTCTCTTCTGGATAGCCCAAAGTG
TCCGCCTACCAACACTGGAGCCGCTGGGAGTCACTGGCCTTGGCCCTGGAATTTGCCAGATGCATCTCAAGTAAGC
CAGCTGCTGGATTGGCTCTGGGCCCTTCTAGTATCTCTGCCGGGGGCTTCTGGTACTCCTCTCTAAATACCAGA
GGGAAGATGCCCATAGCACTAGGACTTGGTCATCATGCCTACAGACACTATTCAACTTTGGCATCTTGCCACCAG
AAGACCCGAGGGAGGCTCAGCTCTGCCAGCTCAGAGGACCAGCTATATCCAGGATCATTCTCTTTCTTCAGGGC
CAGACAGCTTTTAAATTGAAATTGTTATTTACAGGCCAGGGTTCAGTTCTGCTCCTCCACTATAAGTCTAATGTT
CTGACTCTCTCCTGGTGCTCAATAAATATCTAATCATAACAGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6205

MGILLGLLLLGHLLTVDTYGRPILEVPESVTGPWKGDVNLPC TYDPLQGYTQVLVKWLVQRGSDPVTIFLRDSSGD
HIQQAKYQGR LHVSHKVP GDVSLQLSTLEMDDRSHTCEVTWQTPDGNQVVRDKITELRVQKLSVSKPTVTTGSG
YGFTVPQGMRLSLQCQARGSPPI SYIWYKQQTNNOEPIKVATLSLLFKPAVIADSGSYFCTAKGQVGSEQHSDI
VKFVVKDSSKLLKTKTEAPT TMTYPLKATSTVKQSWDWT TMDGYLGETSAGPGKSLPVFAIILIISLCCMVFT
MAYIMLCRKT SQQEHVYEAAAHAREANDSGETMRVAIFASGCSSDEPT SQNLGNYSDEPCIGQEYQIIAQING
NYARLLDTVPLDYEFLATEGK SVC

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FIGURE 6206

CAGTAGTGCTAGCAGCTTCGCGGTTTCGGTCTTCGGACCCGGCAGCCACCACTGGTGCTGAGCTGCTAGGAAGCCC
CTATCGGCGAGCTCTTTGGAGCTTGAACCCATTGTCACTCTCCGACTCACCGGAAAAACAAAAATGGGTGAA
GCAGATCGCCTAGGAAAGTTTTTCATTGGTGGGCTTAATACGGAAACAAATAAGAAAGCTCTTGAAGCAGTATTT
GGCAAATATGGACAAATAGTGGAAGTACACTTGATGAAAGACTGTGAAACCAACAAATCAAGAGGATTTGCTTTT
ATCACCTTTGAAAGACCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGGAAAAGCC
ATCAAGGTGGAACAAGCCACCAACCGTCATTTGAAAGTGGTAGACGTGGACCGCCTCCACCTCCAAGAAGTAGA
GGCCCTCCAAGAGTTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAGGGAACCTCCCTCACGGGGAGGACAC
ATGGATGACTGGTGGATATTCATGAATTTTAACATGAGTTCTTCCAGGGGACCACTCCAGTAAAAAGAGGACC
ACCACCAAGAAGTGGGGGTCTTCCTCCTAAGAGATCTGCACCTTCAGGACCAGTTCGCAGTAGCAGTGGAATGGG
AGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTACCGAGGTCCACCTCGAAGGGAATCGCTGCCCTCTTG TAG
AGAGCTCCACCTACACGAGGGCGCCCCATCTTATGGTGGAAAGCAGTCGCTATGATGATTACAGCAGCTCACGTG
ACGGATATGGTGGAAAGTCGAGACAGTTACTCAAGCAGTCGAAGTGATCTCTACTCAAGTGGTCGTGATCAGGTTG
GCAGACAAGAAAGAGGGCTTCCCCCTTCTATGGAAGGGGGTACCCTCCTCCACGTGATTCCTACAGCAGTTCAA
GCCGTGGAACACCAAGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGA
AACAAACAAAACTTTGTACCAAAATCCCAGTTCAAAGAAACAAAAGTGGAACCTATTCTATCATAACTACCCAA
GAAGTACTAAAAGGAAAAATTGTGTTACCTTTTTTAAATTCCTGTAAAGCTCCCCTCCATAATTTTTATGTTT
TTGTGAGGAAAAAAGTAAACATGTTTAAATTTATTTGACTTTTGCATTGCTTTTCAACAAGCAAATGTTAAAT
GTGTTAAGACTTATACTAGTGTGTAACCTTCCAAGTAAAAGTATCCCTAAAGGCCACTTCCTATCTGATTTTC
CCAGTAAATGAGGCAGGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAATGGAGAGATGAATCATTC
TACCTACACAAACAAGCTAGCTATTAGAGGGTGGTTGGGATATGCTACTCATAAGATTTAGGGTGTCTTCCAAC
TGAAATCTCAATGTTCTTAGTATGAAAAACCTGAAATCGCATGCCTATTACCCAGTAAACCCAAAAAGCAAAT
GGATAATGCTGGCCATTCTGCCTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCCTCCCCCAA
TAAGACCATTTAAGTGTGTGCTAAACAACCTAAGAATACTAAATAAAATGTTTGGCCAAAACC

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FIGURE 6207A

GGCCAGCCGAATCCAAGCCGTGTGTACTGCGTGCTCAGCACTGCCCGACAGTCCTAGCTAAACTTCGCCAACTCC
GCTGCTTTTGCCGCCACCATGCCCCAAAACGATCAGTGTGCGTGTGACCACCATGGATGCAGAGCTGGAGTTTGCC
ATCCAGCCCAACACCACCGGGAAGCAGCTATTTGACCAGGTGGTGAAAACCTATTGGCTTGAGGGAAGTTTGTTT
TTTGGTCTGCAGTACCAGGACACTAAAGGTTTCTCCACCTGGCTGAAAACCTCAATAAGAAGGTGACTGCCCAGGAT
GTGCGGAAGGAAAGCCCCCTGCTCTTTAAGTTCCGTGCCAAGTTCTACCCTGAGGATGTGTCCGAGGAATTGATT
CAGGACATCACTCAGCGCTGTTCTTTCTGCAAGTGAAAGAGGGCATTCTCAATGATGATATTTACTGCCCGCCT
GAGACCGCTGTGCTGCTGGCCTCGTATGCTGTCCAGTCTAAGTATGGCGACTTCAATAAGGAAGTGCATAAGTCT
GGCTACCTGGCCGGAGACAAGTTGCTCCCGCAGAGAGTCTTGGAAACAGCACAACTCAACAAGGACCAGTGGGAG
GAGCGGATCCAGGTGTGGCATGAGGAACACCGTGGCATGCTCAGGGAGGATGCTGTCTTGGAAATATCTGAAGATT
GCTCAAGATCTGGAGATGTATGGTGTGAACTACTTCAGCATCAAGAACAAGAAAGGCTCAGAGCTGTGGCTGGGG
GTGGATGCCCTGGGTCTCAACATCTATGAGCAGAATGACAGACTAACTCCCAAGATAGGCTTCCCCTGGAGTGAA
ATCAGGAACATCTCTTTCAATGATAAGAAATTTGTCTATCAAGCCCATTGACAAAAAGCCCCGGACTTCGTCTTC
TATGCTCCCCGGCTGCGGATTAACAAGCGGATCTTGGCCTTGTGCTATGGGGAACCATGAAGTATACATGCGCCGT
CGCAAGCCTGATACCATTGAGGTGCAGCAGATGAAGGCACAGGCCCCGGGAGGAGAAGCACCAGAAGCAGATGGAG
CGTGCTATGCTGGAAAAATGAGAAGAAGAAGCGTGAAATGGCAGAGAAGGAGAAAGAGAAGATTGAACGGGAGAAG
GAGGAGCTGATGGAGAGGCTGAAGCAGATCGAGGAACAGACTAAGAAGGCTCAGCAAGAACTGGAAGAACAGACC
CGTAGGGCTCTGGAACCTTGAGCAGGAACGGAAGCGTGCCAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCGTCAA
GAAGCTGAAGAGGCCAAGGAGGCCTTGCTGCAGGCCTCCCGGGACCAGAAAAAGACTCAGGAACAGCTGGCCTTG
GAAATGGCAGAGCTGACAGCTCGAATCTCCAGCTGGAGATGGCCCCGACAGAAGAAGGAGAGTGAGGCTGTGGAG
TGGCAGCAGAAGGCCAGATGGTACAGGAAGACTTGGAGAAGACCCGTGCTGAGCTGAAGACTGCCATGAGTACA
CCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGGCAGAGGCTAGTGCTGACCTA
CGGGCTGATGCTATGGCCAAGGACCGCAGTGAGGAGGAACGTACCCTGAGGCAGAGAAGAATGAGCGTGTGCAG
AAGCACCTGAAGGCCCTCACTTCGGAGCTGGCCAATGCCAGAGATGAGTCCAAGAAGACTGCCAATGACATGATC
CATGCTGAGAACATGCGACTGGGCCGAGACAAATACAAGACCCGTGCGCCAGATCCGGCAGGGCAACACCAAGCAG
CGCATTGACGAATTTGAGTCTATGTAATGGGCACCCAGCCTCTAGGGACCCCTCCTCCCTTTTCTTGTGCCCA
CACTCCTACACCTAACTCACCTAACTCATACTGTGCTGGAGCCACTAACTAGAGCAGCCCTGGAGTGCACCAAG
CATTTAATGTAGCCATGGGACCAAACTAGCCCCCTTAGCCCCACCCACTTCCCTGGGCAAATGAATGGCTCACT
ATGGTGCCAATGGAACCTCCTTTCTCTTCTGTTCCATTGAATCTGTATGGCTAGAATATCTTACTTCTCCAGC
CTAGAGGTACTTTCCACTTGATTTTGCAAATGCCCTTACACTTACTGTTGCTCTATGGGAGTCAAGTGTGGAGTA
GGTTGGAAGCTAGCTCCCCCTCCTCTCCCCCTACCACTGTCTTCTTTCAGGGTCTGAGATTTACACGGTTGGAGTGT
TATGCGGTCTAGGGAATGAGACAGGACCTAGGATATCTTCTCCAGGATGTCAACTGACCTAAAAATTTGCCCTCCC
ATCCCGTTTAGAGTTATTTAGGCTTTGTAACGATTGGGGGATAAAAAGATGTTTCAGTCATTTTTGTTTCTACCTC
CCAGATCGGATCTGTTGCAAACCTCAGCCTCAATAAGCCTTGTGCTTGAATTTAGGGACTCAATTTCTCCCCAGGG
TGGATGGGGGAAATGGTGCCTTCAAGACCTTACCAAAACATACTAGAAGGGCATTGGCCATTCTATTGTGGCAAG
GCTGAGTAGAAGATCCTACCCCAATTCCTTGTAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTA
CCCCCTACTTATTATTCAGATCTGCAGTCACTTCGTGGGATCTGCCCTCCTGCTTCAATACCCAAATCCTCT
CCAGCTATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATAT
GTTACACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGTCTCTTCCCCTCTCAGAGCTACTTGGGCCATA
GCTCCTGCTCCACAGCCATCCAGCCTTGGCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCA
AAAAGCTGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCTCTCAGGTGACCAAAATCCCC
TTCTCATCACTCCCCCTCAAAGAGGTGACTGGGCCCTGCCTCTGTTTGACAAACCTCTAACCCAGGTCTTGACAC
CAGCTGTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCAC
CCCTTGCTCTCAACCCAGGAGCATCCACCTCCTTCTGTCTCATGTGTGCTCTTCTTCTTCTACAGTATTATG
TACTCTACTGATATCTAAATATTGATTTCTGCCTTCTTGTCTAATGCACCATTAGAAGATATTAGTCTTGGGGCA
GGATGATTTTGGCCTCATTACTTTACCACCCCCACACCTGGAAAGCATATACTATATTACAAATGACATTTTGC
CAAAATTATTAATATAAGAAGCTTTAGTATTAGTGATGTCTGTCACTATAGGTCATACAATCCATTCTTAA
AGTACTTGTTATTTGTTTTTATTATTACTGTTTGTCTTCTCCCAGGGTTAGTCTCTCAAGGGGCCATCCTGTCC
CACCATGCAGTGCCCCCTAGCTTAGAGCCTCCCTCAATTCCCCCTGGCCACCACCCCCCACTCTGTGCTGACCTT

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FIGURE 6207B

GAGGAGTCTTGTGTGCATTGCTGTGAATTAGCTCACTTGGTGATATGTCCTATATTGGCTAAATTGAAACCTGGA
ATTGTGGGGCAATCTATTAATAGCTGCCTTAAAGTCAGTAACTTACCCTTAGGGAGGCTGGGGGAAAAGGTTAGA
TTTTGTATTCAGGGGTTTTTGTGTACTTTTTGGGTTTTTAAAAATTGTTTTTGAGGGGTTTATGCTCAATCC
ATGTTCTATTTCAAGTGCCAATAAAATTTAGGAAGACTTC

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FIGURE 6208

MPKTISVRVTTMDAELEFAIQPNTTGKQLFDQVVKITIGLREVWFFGLQYQDTKGFSTWLKLNKKVTAQDVRKESP
LLFKFRAKFYPEDVSEELIQDITQRLFFLQVKEGILNDDIYCPPETAVLLASYAVQSKYGDFNKEVHKSGYLAGD
KLLPQRVLEQHKLNDQWEERIQVWHEEHRGMLREDAVLEYLKIAQDLEMYGVNYFSIKNKKGSELWLGVDALGL
NIYEQNDRLTPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVIFYAPRLRINKRILALCMGNHELYMRRRKPDIT
EVQOMKAQAREEKHQKQMERAMLENEKKKREMAEKEKEKIEREKEELMERLKQIEEQTKKAQOELEEQTTRALEL
EQERKRAQSEAEKLAKERQEAEAKEALLQASRDQKKTQEQLALEMAELTARISOLEMARQKKESEAVEWQQKAQ
MVQEDLEKTRAELKTAMSTPHVAEPAENEQDEQDENGAEASADLRADAMAKDRSEEERTTEAEKNERVQKHLKAL
TSELANARDESKKTANDMIHAENMRLGRDKYKTLRQIRQGNTKQRIDEFESM

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FIGURE 6209

TAGAAGATCCTACCCCAATTCCTTGTTAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTACCCCTT
ACTTATTATTCCAGATCTGCAGTCACTTCGTGGGATCTGCCCCCTCCCTGCTTCAATACCCAAATCCTCTCCAGCT
ATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATATGTTTAC
ACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGTCTCTTCCCCTCTCAGAGCTACTTGGGCCATAGCTCCT
GCTCCACAGCCATCCCAGCCTTGGCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCAAAAAGC
TGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCCTCTCAGGTGACCAAAATCCCCTTCTCA
TCACTCCCCTCCAAAGAGGTGACTGGGCCCTGCCTCTGTTTGACAAACCTCTAACCCAGGTCTTGACACCAGCTG
TTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCACCCCTTG
CTCTCAACCCAGGAGCATCCACCTCCTTCTCTGTCTCATGTGTGCTCTTCTTTTTCAGTATTAGTGATGTCAT

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FIGURE 6210

GTGCGGAGCGGCGCGGCACAGAGCCTGTTGTTGAGCTCAGTATGTCGTGGGAATCCGGGGCCGGGCCAGGTCTAG
GTTCCAGGGGATGGATCTCGTGTGGAGTGCCTGGTACGGAAAGTGCCTTAAAGGGAAAGGGTCGTGCGCACTCT
CGCCCCACGGCATCGTGGTCGCCTGGCTCAGCAGGGCCGAGTGGGACCAGGTGACGGTTTATCTGTTCTGTGACG
ACCATAAGTTGCAGCGGTACGCGCTTAACCGCATCACGGTGTGGAGGAGCAGGTGAGGCAACGAACCTCCCTCTGG
CAGTGGCTTCTACTGCTGACCTGATACGCTGTAAGCTCTTGGATGTAAGTGGTGGCTTGGGCACTGATGAACCTA
GACTGCTCTATGGCATGGCATTGGTCAGGTTTGTGAATCTTATCTCAGAGAGGAAGACAAAGTTTGCCAAGGTCC
CCCTCAAGTGTCTGGCTCAAGAGGTAATATTCCGGATTGGATTGTTGACCTTCGCCATGAGTTGACCCACAAGA
AAATGCCCCATATAAATGACTGCCGCAGAGGCTGCTACTTTGTCCTGGATTGGCTCCAGAAGACCTATTGGTGCC
GCCAACTGGAGAACAGCCTGAGAGAGACCTGGGAGTTGGAGGAGTTCAGGGAAGGGATAGAGGAAGAGGATCAAG
AGGAAGATAAGAACATTGTTGTTGATGACATCACAGAACAGAAACCAGAGCCTCAGGATGATGGGAAAAGTACGG
AGTCAGATGTAAAGGCCGATGGAGACAGCAAAGGCAGCGAAGAGGTGGATTCTCATTGCAAAAAGGCCCTGAGTC
ATAAAGAGCTATATGAAAGAGCCCGAGAACTGCTGGTATCATACGAAGAGGAGCAGTTTACGGTGTCTGGAGAAAT
TTAGGTATTTACCTAAGGCCATTAAGGCGTGGAATAACCCGTCCCCACGTGTAGAATGTGTCTGGCAGAGCTCA
AGGGCGTTACGAGAACAGGGAGGCTGTGCTGGATGCTTTTCTGGATGATGGCTTCCTTGTCCCCACATTTG
AACAGTTGGCAGCTTTGAGATAGAATATGAAGATGGTCAGACTGAGGTCCAGAGAGGGGAAGGTACTGACCCAA
AGTCACACAAAAACGTGGACTTGAATGACGTCCTGGTGCCAAAGCCGTCTCTCAGTTCTGGCAGCCCCCTGCTCA
GGGGCCTGCACTCCCAGAACTTCACGCAGGCCCTATTGGAGAGGATGCTCTCTGAACTGCCAGCCTTGGGGATCA
GCGGGATCCGGCCTACCTACATCCTCAGATGGACCGTTGAACTGATCGTGGCCAAACACCAAGACTGGACGGAATG
CTCGCCGATTTTCTGCAGGCCAGTGGGAAGCAAGAAGGGGCTGGAGGCTGTTCAACTGCTCCGCCTCCCTTGA
GGCCCCGGATGGTTGAGTCCTGCTTGGGCTCACCTTGCTGGGCCAGCCCCCAACTCCTTCGGATCATCTTCAAAG
CCATGGGGCAGGGCCTGCCAGACGAGGAGCAGGAGAAGCTGCTGCGCATCTGTTCCATTTATACCCAGAGTGGAG
AAAACAGCCTGGTGCAGGAGGGCTCTGAGGCCTCCCCATGGGAAGTCTCCATATACACTAGACAGCCTGTATT
GGAGCGTCAAGCCAGCCAGCTCCAGCTTCGGGTCTGAAGCAAAGGCCAGCAACAGGAGGAGCAGGGCAGTGTTA
ATGATGTCAAGGAAGAGGAGAAGGAGGAGAAAGAGGTCTTGCCAGACCAGGTAGAGGAGGAGGAAGAAAATGATG
ACCAAGAGGAGGAAGAGGAGGATGAAGATGATGAAGATGATGAAGAGGAAGACAGAATGGAGGTGGGGCCTTTCT
CTACAGGGCAAGAGTCCCCACTGCCGAGAATGCTAGGCTTCTGGCCCAGAAAAGAGGAGCTTTCAGGGGCTCTG
CATGGCAGGTTAGCTCAGAAGACGTGCGATGGGACACATTTCCCTAGGCCGAATGCCAGGTGACACCGAGGACC
CAGCAGAGCTCATGCTGGAGAATTATGACACCATGTATCTTTTGGACAGCCTGTGCTAGAGCAGCGGCTGGAAC
CCTCAACATGCAAGACTGACACCTTGGGCCTGAGCTGTGGTGTGCGCAGTGGCAACTGCAGCAACAGCAGCAGCA
GCAACTTCGAGGGCCTTCTCTGGAGCCAGGGGCAGCTGCATGGGCTCAAAACTGGCCTGCAGCTCTTCTGATGGC
CATCCCTGGTGCAAGTGTTTCATCCAGCCGTGCCAGGGCAACAGCCCACCCCTAGTACAACCTGATGCTCCCTGAG
ACAACCTGGGAGACAGCCTGGATCAGCCACATCAACTCAGTTGTCCACCACAGGGGAATTTTGAATGCTTTTGT
TTTTGTTTTGTTTTGAAAAATAATAAACAGGCAACTGT

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FIGURE 6211

MSWESGAGPGLGSQGM DLVWSAWYGKCVKGKGS LPLSAHGIVVAWLSRAEWDQVTVYLF CDDHKLQRYALNRITV
WRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLYGMALVRFVNLI SERKTKFAKVPLKCLAQEVNIPDW
IVDLRHELTHKKMPHINDCRRGCFVLDWLQKTYWCRQLENSLRETWELEEFREGIEEEDQEEDKNIVVDDITEQ
KPEPQDDGKSTESDVKADGDSKGSEEVDSHCKKALSHKELYERARELLVS YEEEQFTVLEKFRYLPKAIKAWNNP
SPRVECVLAE LKGVT CENREAVLDAFLDDGFLVPTFEQLAALQIEYEDGQTEVQRGEGTDPKSHKNVDLNDVLVP
KPFSQFWQPLLRGLHSQNF TQALLERMLSELPALGISGIRPTYILRWTVELIVANTKTGRNARRFSAGQWEARRG
WRLFNCASLDWPRMVESCLGSPCWASPQLLR IIFKAMGQGLPDEEQEKLLRICSIYTQSGENSLVQEGSEASPI
GKSPYTLDSLYWSVKPASSSFGSEAKAQQQEEQGSVNDVK EEEEEKEEVLDPQVEEEEENDDQEEEEDEDEDDED
EEEDRMEVGPFSTGQESPTAENARLLAQKRGALQGS AWQVSS EDVRWDTFPLGRMPGQTEDPAELMLENYDTMYL
LDQPVLEQRLEPSTCKTDTLGLSCGVGSGNCSNSSSNFEGLLWSQGQLHGLKTGLQLF

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FIGURE 6212

ATGAACAGCCCGGACCTCCGTCGTCCCGCGGCGACCAAAATCTCCGCTGGCCGCACCGCTGTGACTACTCCGGAC
TCGCCGGCAGAGTTTGGCCGCCGGGGAGGGTGGCCGATTGGCGGAGCGCACTCCTGCTGTTTCTCCCACCATCTC
GTGGATGTCGTCCCTCGGGTGGTGAGAGAACTTTGCAGTGGGCTGGAGCGCCCTTTGCGGAGAAGCACACGAAGT
TGGAAATTGACCGGAGAATTGAGTTGCCGGGGAACAGAGCCCCGGCCGCCAGCGCGATGTTCCCGCAGAGCC
GGCACCCGACGCCGCACCAAGGCTGCAGGCCAGCCCTTCAAGTTCAGTATCGCGGAGTCCCTGGACCGGATTAAAG
AGGAATTCCAGTTCCTGCAGGCGCAGTATCACAGCCTTAAATTGGAATGAACATCAACAACAGGTGGCCCAGGCT
GTCGAACGTGCCAAACAGGTGACCATGGCAGAGTTGAATGCCATCATCGGGCAGCAGCAGTTGCAAGCTCAGCAT
CTTTCTTATGGCCACGGACCCCCAGTTCCCCTTACGCCTCACCCCTTCGGGACTTCAGCCTCCTGGAATCCCGCCC
CTCGGGGGCAGTGCCGGTCTTCTTGCACTGTCTAGTGCTCTGAGTGGGCAATCTCACTTGGCAATAAAAGATGAC
AAGAAGCATCAAGATGCAGAGCACCCACAGAGATGAGAGGCCCGGCAAGCCAGATTAG

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FIGURE 6213

MNSPDLRRPAATKISAGRTAVTTPDSPAEFARRGGWPIGGAHSCCFSHHLVDVVPRVVRELCSGLERPLRRSTRS
WKL TGELSCRGTEPRPPPARCSRRAGTRRRTRLQASPSSSVSRSPWTGLKRNSSSCRRSITALNWNEHQQQVAQA
VERAKQVTMAELNAIIGQQQLQAQHLSYGHGPPVPLTPHPSGLOPPGIPPLGGSAGLLALSSALSGQSHLAIKDD
KKHQDAEHHRDERPGKPD

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FIGURE 6214A

CTGATCTCGGGGATTCTGGGTGCGGAGCCCTTGGCCTGGAGGCGATATGGGTGGTCCGTGGCCCCGGTTCAGTCGCT
TGCAGCAGCCCCGGGGAACAGGCCTGTCTGGCCCTGAGGGAGTCCCCTTTCTGAAGCTGTGGTGTCTGGACGACCT
GCTCTCTACATTGCTGGGCACCTGTAGGTGTCCCTCGAGAGCTCAGTTTTGAGGTTCAAGTCAGTGTGGCCATGA
AGGGGCTGCCATTTGGGCTGATGCTGTGACCCTGGAGTCTGCCTCTCCTGCCAGTCCCCCTGCCCGGAACATGTG
GCTGCGGCTTGGCCCCGCCCTCGCTGTCCCTGAGCCCCAACGCCACGGTTGGCAGGAGCCTGTGCCTCACCTGTG
GTTCTCTCAGTTTGGCGCTGAGGGCCAGTACCCAGGCCCCAGCACCCACAGTCAACACTCACTTTGGGAAGCTAAG
GGGTGCCGAGTACCACTGCCAGTGAGATCCTGGGGCCTGTGGACCAATACCTGGGGGTGCCCTACGCAGCTCC
CCCGATCGGCGAGAAACGTTTCTGCCCCCTGAACCACCCCCATCCTGGTCGGGCATCCGGAACGCCACACACTT
TCCCCCAGTGTGCCCCCAGAACATCCACACAGCTGTGCCCGAAGTCATGCTGCCGGTCTGGTTCAGTCCAACTT
GGATATCGTCGCTACTTACATCCAGGAGCCCCAACGAAGACTGTCTCTACCTGAACGTCATGTGTGCCGACGGAGGA
TGGATCCGGCGCTAAGAAACAGGGCGAGGACTTAGCGGATAATGACGGGGATGAAGATGAAGACATCCGGGACAG
TGGTGCTAAACCCGTCATGGTCTACATCCACGGAGGCTCTTACATGGAAGGGACAGGCAACATGATTGATGGCAG
CATCCCCGCCAGTTATGGCAATGTCTAGTCTATCACCCTCAACTATCGGGTTGGAGTGCTAGGTTTCTGAGTAC
TGGAGATCAGGCTGCCAAGGGCAACTATGGGCTCCTTGACCAGATCCAGGCCCTCCGCTGGGTGAGCGAGAATAT
TGCTTCTTCGGGGGAGACCCCCGCCGGATCACTGTCTTTGGCTCGGGCATTGGTGCATCCTGCGTCAGCCTCCT
CACGTTGTACATCACTCAGAGGGACTTTTCCAGAGAGCCATCATCCAAAGTGGCTCTGCTCTGTCCAGCTGGGC,
TGTGAACACCAACAGTGAAGTACACCAGCCTGCTGGCAGACAAAGTGGGCTGTAATGTGTGTCGACACCGTGGA
TATGGTGGACTGTCTTCGGCAAAAGAGTGCCAAGGAGCTGGTAGAGCAGGACATCCAGCCAGCCCCGCTACCACGT
GGCCTTTGGCCCTGTGATTGATGGTGTGTCATTCTGATGACCCTGAGATCCTCATGGAGCAGGGCGAGTTCTT
CAACTATGACATCATGCTAGGTGTCAACCAGGGCGAGGGTCTCAAGTTTGTGGAAGGGGTGGTGGACCCTGAGGA
TGGTGCTCTGGCACTGACTTTGACTATTCCGTCTCCAATTTTGTGGACAATCTGTATGGCTATCCTGAGGGTAA
GGACACCCTGCGAGAGACCATCAAGTTTATGTATACAGACTGGGCAGACCCTGACAACCCCTGAGACCCGCCGTAA
AACACTGGTGGCACTCTTCACTGACCACCAGTGGGTGGAGCCCTCAGTGGTGACAGCCGATCTGCATGCCCGCTA
CGGCTCGCTACCTACTTCTACGCCTTCTATCATCACTGCCAGAGCCTCATGAAGCCTGCTTGGTTCAGATGCAGC
TCATGGGGATGAAGTACCCCTATGTTTTTGGGGTTCTATGGTAGGCCCCACTGACCTTTTCCCTGCAACTTCTC
CAAGAATGATGTTATGCTCAGTGCTGTGCTCATGACCTATTGGACCAACTTTGCCAAGACTGGGGATCCCAACAA
GCCGGTCCCCCAGGACACCAAGTTTCACTTACACCAAGGCCAACCGCTTTGAGGAAGTGGCCTGGTCCAAATACAA
TCCCCGAGACCAGCTCTACCTTACATCGGGCTGAACCAAGGTTCCGAGATCATTACCGGGCCACTAAGGTGGC
CTTTTGGAAACATCTGCTGCCCCACCTATACAACTGCATGACATGTTCCACTATACGTCCACCACCACCAAGT
GCCGCTCCGGATACCAACCCACAGCTCCACATCACCCGACGGCCCAATGGCAAGACCTGGAGCACCACCGGCC
AGCCATCTACCTGCCTACAGCAACGAGAATGCCAGGGGTCTTGAACGGGGACCAAGATGCAGGCCCCACTCCT
GGTGGAGAACCCTCGTGACTACTCCACTGAATTAAGTGTACCATCGCCGTGGGGGCTCCCTCCTGTTCTCTTAA
CGTTCTGGCCTTTCGCTGCCCTCTACTACCGTAAGGACAAACGGCGCCAGGAGCCCCCTGCCGACCTAGCCCTCA
GCGGGGAGCCGGGGCCCCGGAGTTGGGAGCTGCTCCAGAGGAGGAGCTGGCAGCATTACAACCTGGGCCCCACCCA
CCACGAGTGTGAGGCCGGTCCCCCCATGACACGCTGCGCCTCACTGCATTGCCCGACTACACCCTGACCCTGCG
GCGCTCCCCGGATGACATCCCACTCATGACCCCCAACCCATCACTATGATCCCCAACTCCCTGGTAGGGCTGCA
GACATTGCACCCCTATAACACCTTTGCCGAGGGTTCAACAGTACCGGGCTGCCCCACTCACACTCCACTACCCG
GGTATAGCTCCAACCTCAGAGCACAGCCAATCTCCAGGCTCCCTCCCTCCCAGATCCAGGAACACATGCACACACA
CACACACACACACGACACACACACACACACATATGTATACGCACGCACCCACACCCCTACAGCAGATCC
ACCTGCACAAACATAGACAGATGTGGACATGCACCCGCTGTACAAAAACACAAATACGGAAGTAAACCTGAACA
AACCCTTTAAATGGGGACGCAGATGAGTCTCGGTAAACCGAGGACCCATGAAACAGCAGCTGAAGCCAGCTCCC
TGAATCTGACCACAGACACTCCTGGGGGGCCTGAAAGCAACAGCTGGACACCCCTTGGTGTCTGCCTTCGGCCT
CTCTTGGAACTGCACCACCGACCAACTCCAGACTTGGGAGCTTTAAAGAGCAGGATAGCTCTTCTCCCCAGGAC
TTGGTCTTTTTTCTGGGTCTTGTGTTTGTGATTTTTCTTTTTTAATTTTGAACAAATGCTTTTTCAACCCATGA
GTGCTAAGAGCCTCTGGAAGGGAGGGCTTCAGGCCCGAAGGTCTCTCTGGCTCTAGGACCCCCAGTGCTCACACA
ATCAGACCAAGGAACAAGACCCCCAGGAAGGAAACAGATTTAAGCAAGACCATGGGGTGAAGGAGAAAGGGGCT
AGCACTGGATGGAGCTGGAGGGTCGTAGGGGAGAGATCTCAACTCTCTGTGTCCGTGTGGAGGGCTGCAGAG
CCTGCAGGGTGACCTGCTTCCCCAAAGGCCAACAGCATTGGCCTGGCCAGACCAGGTGACCTTAGATTTGGTGAA

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FIGURE 6214B

CAACGTACTATGGAAGCCACATCACTATTGGGCCCCCAGGTCTGATCTGGGTTTTGCCTCTGCCCTTGGGGAAAT
GCTATCAGAAATTCGCCCCATTTTCTTTACAGTCTTTTGTGTCTGTCATTTCTCTTCAAAAAGGCGGTGTTTT
TGTTGTTGTTGGTTTTTTTTTTTTTTTAAAGAAAAGTTCTTAAACACTAACGAAAAAAAAA

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FIGURE 6215

MWLR LGPPSLSLSPKPTVGRSLCLTLWFLSLALRASTQAPAPTVNTHFGKLRGARVPLPSEILGPVDQYLGVPYA
APPIGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPNEDCLYLN VYVPT
EDGSGAKKQGEDLADNDGDEDEDIRDSGAKPVMVYIHGGSYMEGTGNMIDGSIPASYGNVIVITLNYRVGVLGFL
STGDQAAKGNYGLLDQIQALRWVSENIAFFGGDP RRI TVFGSGIGASCVSLLTL SHHSEGLFQRAIIQSGSALSS
WAVNYQPVKYTSLLADKVGCNVLDTVDMVDCLRQKSAKELVEQDIQPARYHVAFGPVIDGDVIPDDPEILMEQGE
FLNYDIMLGVNQGEGLKFVEGVVDPEDGVSGTDFDYSVSNFVDNLYGYPEGKDTLRETIKFMYTDWADRNPETR
RKT LVALFTDHQWVEPSVVTADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVYVFGVPMVGPTDLFPCN
FSKNDVMLS AVVM TYWTF AKTGDPNKPVPQDTKF IHTKANRFEEVAWSKYNPRDQLYLHIGLKPRVRDHYRATK
VAFWKHLVPHLYNLHDMFHYTSTTTKVPPPDTHSSHITRRPNGKTWSTKRPAISPAYS NENAQGSWNGDQDAGP
LLVENPRDYSTELSVTI AVGASLLFLNVLAFAALYRDKRRQEPLRQPS PQRGAGAPELGAAP EEE LAALQLGP
THHECEAGPPHDTLRLTALPDYTLTLRRSPDDIPLMTPNTITMIPNSLVGLQTLHPYNTFAAGFNSTGLPHSHST
TRV

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FIGURE 6216

CTCTGGGAAAGGGCAGCAGCAGCCAGGTGTGGCAGTGACAGGGAGGTGTGAATGAGGCAGGATGAACTGGACAGG
TTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCATTGGCCGAGTATGGCTCTCGGTCATCTTCAT
CTTCAGAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGGGTGATGAGAAATCTTCCCTTCATCTGCAACAC
ACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCCCATCTCCCATGTGCGGGCTGTGGTCCCTGCA
GCTCATCCTAGTTTCCACCCCAGCTCTCCTCGTGGCCATGCACGTGGCTCACCAGCAACACATAGAGAAGAAAAT
GCTACGGCTTGAGGGCCATGGGGACCCCTACACCTGGAGGAGGTGAAGAGGCACAAGGTCCACATCTCAGGGAC
ACTGTGGTGGACCTATGTCATCAGCGTGGTGTTCGGGCTGTTGTTTGAGGCCGTCTTCATGTATGTCTTTTATCT
GCTCTACCTGGCTATGCCATGGTGC GGCTGGTCAAGTGCGACGTCTACCCCTGCCCCAACACAGTGGACTGCTT
CGTGTCGCCGCCCCACCGAGAAAACCGTCTTCACCGTCTTCATGCTAGCTGCCTCTGGCATCTGCATCATCCTCAA
TG TGCCGAGGTGGTGTACCTCATCATCCGGGCCTGTGCCCGCCGAGCCAGCGCCGCTCCAATCCACCTTCCCG
CAAGGGCTCGGGCTTCGGCCACCGCCTCTCACCTGAATACAAGCAGAATGAGATCAACAAGCTGCTGAGTGAGCA
GGATGGCTCCCTGAAAGACATACTGCGCCGCAGCCCTGGCACCGGGGCTGGGCTGGCTGAAAAGAGCGACCGCTG
CTCGGCCTGCTGATGCCACATAACCAGGCAACCTCCCATCCCACCCCGACCCCTGCCCTGGGCGAGCCCCCTCCCTT
TCCCTGCCGGTGACAGGCCTCTGCCTGCTGGGGATTACTCGATCAAAACCTTCCTTCCCTGGCTACTTCCCTT
CCTCCCGGGGCCTTCCTTTTGAGGAGCTGGAGGGGTGGGGAGCTAGAGGCCACCTATGCCAGTGCTCAAGGTTAC
TGGGAGTGTGGGCTGCCCTTGTTGCCTGCACCCCTTCCCTCTTCCCTCTCCCTCTCTCTGGGACCACTGGGTACAA
GAGATGGGATGCTCCGACAGCGTCTCCAATTATGAACTAATCTTAACCCTGTGCTGTGATACCTGTTTCTG
GAGTCACATCAGTGAGGAGGGATGTGGGTAAGAGGAGCAGAGGGCAGGGGTGCTGTGGACATGTGGGTGGAGAAG
GGAGGGTGGCCAGCACTAGTAAAGGAGGAATAGTGCTTGCTGGCCACAAGGAAAAGGAGGAGGTGTCTGGGGTGA
GGGAGTTAGGGAGAGAGAAGCAGGCAGATAAGTTGGAGCAGGGGTGGTCAAGGCCACCTCTGCCTCTAGTCCCC
AAGGCCTCTCTCTGCCTGAAATGTTACACATTAAACAGGATTTTACAGT

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FIGURE 6217

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVVAESVWGDEKSSFICNTLQPGCNSVCYDQFFPISHVR
LWSLQLILVSTPALLVAMHVAHQHIEKKMLRLEGHGDPHLHEEVKRHKVHISGTLWWTYVISVVFRLLEAVFM
YVFYLLYPGYAMVRLVKCDVYPCPNTVDCFVSRPTEKTVFTVFMLAASGICIIILNVAEVVYLIIRACARRAQRRS
NPPSRKGSFGHRLSPEYKQNEINKLLSEQDGLKDILRRSPGTGAGLAEKSDRCSAC

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FIGURE 6218

GTGTGAATGAGGCAGGATGAAGTGGACAGGTTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCAT
TGGCCGAGTATGGCTCTCGGTCATCTTCATCTTCAGAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGGG
TGATGAGAAATCTTCCTTCATCTGCAACACACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCC
CATCTCCCATGTGCGGCTGTGGTCCCTGCAGCTCATCCTAGTTTCCACCCAGCTCTCCTCGTGGCCATGCACGT
GGCTCACCAGCAACACATAGAGAAGAAAATGCCAAGGCCTCTCTCTGCC~~TGA~~AATGTTACACATTAAACAGGATT
TTACAGTAAATGAAGAGGTGGCTTGTGTGTTTGTCAAGTTCTTTCTCCTGCAACCTCTGACCTCCCCCAGGATGA
GCTGGCCTTGTTTTTTTACTGATTAAGAAAGGAACAGGGCAAAAGAAGTAGTTACTTGAGTAGCTGAAGCTGCAA
ATGAGGAAATCACTGTACTTCTGGGCCGCAGAGCCAGCCCCGAGCCATTCTCCTGTTGCTTTTGTGTTGTG
GTTCTTGTCTTTTTTATTGTCTAATAACAGCTTTATTGGGATTTAGTTTACATACCTCCTTCCTCTGATTTTGAA
AAGATTAAAAATGACAACCTCCCTCTG

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FIGURE 6219

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVVAESVWGDEKSSFICNTLQPGCNSVCYDQFFPI SHVR
LWSLQLILVSTPALLVAMHVAHQHIEKKMPRPLSA

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FIGURE 6220

TAATTCTAAATGGTGGTAGGAGGAGAACAGGCATTGCTTTACAGCCCCTGGGGGCTACCTCAGTTTGCTATAG
ATAGCAGTCTTTTTTTTTTTGGAGACAGAGTTTCCCTCTTGTTGCCAGGCTAGAGTGCAATGGCATGGTCTTGG
CTCACTGCAACCTCCACCTCCCGGGTTCAAGCGAGTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTG
CTTGCCACCATGCCCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTACACCATGTTGGCCAGGCTGGTCTCG
AACTCCTGACCTCAGGTGATCCACCAGCCTCGGCCTCCCAATTTTTGTATTTTTATTAGAGACTGAGTTTGACCAC
GTTGGTCAGGCTGTTCTTGAACCTCTGACCTCAGATAATCTGCCCCGCTCGGTTTCCCAAAGTGCTGGGATTACT
GGCGTGAGCCACCAAGCCCGGCCAGATAGCAATCTTTAGGACTGCTGGTATCCATTAAATGTAACCTCAAGGTC
TTTATTTTTGAATCTTGAGCAAACCTCAGTCTCTATACTTAATCTAGGAGTTAAGTAAATGCCACCGTCTGACTGG
CCAGTCTGATTGACTATGTTTGTGGAGGGAAAGTCAATGAAGGCTAGGCATTATCACATAAAATAGTTGTGAATC
CAAATACTTCATGGCTCATGCAATCCTGGGGTTGTTTTGGTTATGGTGTAAATGCCAAACTGGATAGTTTGG
TTGTTTCTGTTTTGTCTTTTTCTTTTTCTTTTTGAGACAGAGTTTGTCTTGTGCGCCAGGCTGGAG
TGCACTGGTGCAATCTTGGCTCCCTGCAACCTCCGCTCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGA
GTAGCTGGGATTACAGGCATGCGCCACCACTTTGGGGTTATCCACTAGAGTTCTAAACAGACTTAGTCACCCAC
TCTACCTACCATCAGGAGCCTTGAATAGTTGAATGGAATAGCCTCCAGTGGAGGGACTACAGATGGGTGGGAA
GCTTCCAACAATGGCTCTGTTACAGTGTGCTCTCTTTTTCTCTTTAAGACCCACCAACAAGTGAACGCTTTGG
TCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGTGGAACCTCCTCCTGCATTCAACCGTGCAGCTCCTGGAGC
TGAATTTGCCCCAAACAAACGTCGCCGATACTAATAAGTTGCAGTGTCTAGTTTCTCAAACCCCTAAAGAAGG
ACCTTTTTGGACTAGCCAGAATTCTACCCTGAAAAGTGTTAGGGATTCTTCCAATAGTTAGATCTACCCTGC
CTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGGCAAGGGAGGGGTGGTATTAAACAAGTCAATTCTGTGTGG
TATATTGTTAATCAGTCTCTGTGTGGTGCATTCTTGAAGTCTCTAATGTGACTGTTGAGGGCCTGGGGAAACCAT
GGCAAAGTGGATCCAGTTAGAGCCCATTAATCTTATCATTCCGGTTTTTTTTTTTTTTTGTCCATCTTGTTTCAT
TTGCTTGCCCCGCCCCGAGACGGAGTCTTACTCTGTGCGCCAGGCTGGAGTGTAGTGGCATGATCTCGGCTCAC
TGCAATCTCTGCCTCCCGGGTTCAAGCTTGTCCAGTTGATCTTGAACCTCCTGACCTCGTGATCTACCCACCTCG
GCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCTCACTTGCTTCTATCCTTACACTCCCC
CAGCCCCAGAGAACTGCCACATACACCACAAAACCAACATCCCCCAATGACCTTAGCCCCATTGCTCCATTCT
ACTCCCAGGTGAGAATTCAGGCAAACGTCCACAAAGGTCACAGGCAGCGTACATACGGTCTGTATACCCCATATA
TATTACCCCTTCATGTCCTAAAGAAGACATTTTTCTCTTAGAGATTTTCATTTTAGTGATCTTTAAAAAAAATC
TTGTGTTAACTTGCTCCATCTTTTTCTTGGGTGAGGACACCCAGGAATGACCTTTTGTGTCTATGATGTTGCT
GTTACAGCTTTTCTTGATAGGCCTAGTACAATCTTGGGAACAGGGTTACTGTATACTGAAGGTCTGACAGTAGC
TCTTAGACTCGCCTATCTTAGGTAGTCATGCTGTGATTTTTTTTTTTCATTGGTGTACTGTGTTTGATTGTCTC
ATATATTTGGAGTTTTTCTGAAAATGGAGCAGTAATGCAGCATCAACCTATTAAATACATTTTAAGCCTTTT

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FIGURE 6221

MQSNKTFNLEKQNHTPRKHHQHQQHHQQQQQQPPPPPIPANGQQASSQNEGLTIDLKNFRKPGEKFTQSR
LFVGNLPPDITEEEMRKLFEKYGKAGEVFIHKDKGFGFIRLETRTLAEIAKVELDNMPLRGKQLRVRFACHSASL
TVRNLPQYVSNELLEEAFSVFGQVERAVVIVDDRGRPSGKGIVEFSGKPAARKALDRCSEGSFLLTTFFRPVTVE
PMDQLDDEEGLPEKLVIKNQFHKEREQPPRFAQPGSFYEYAMRWKALIEMEKQQDQVDRNIKEAREKLEMEM
EAARHEHQVMLMRQDLMRQEELRRMEELHNQEVQKRKQLELRQEEERRRREEMRRQQEEMMRQQEGFKGTFP
DAVYLPCARDVPDQS

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FIGURE 6222

GCCAGATCTGGAAGGTGGCTGCGGAACGGTTTTTAAGCGGAAGATGGAGGAGCCGGAGGAACCGGCGGACAGTGGG
CAGTCGCTGGTCCCGGTTTATATCTATAGTCCCGAGTATGTCAGTATGTGTGACTCCCTGGCCAAGATCCCCAAA
CGGGCCAGTATGGTGCACTTTGATTGAAGCATATGCACTGCATAAGCAGATGAGGATAGTTAAGCCTAAAGTG
GCCTCCATGGAGGAGATGGCCACCTTCCACACTGATGCTTATCTGCAGCATCTCCAGAAGGTCAGCCAAGAGGGC
GATGATGATCATCCGGACTCCATAGAATATGGGCTAGGTTATGACTGCCCAGCCACTGAAGGGATATTGACTAT
GCAGCAGCTATAGGAGGGGGCTACGATCACAGCTGCCCAATGCCTGATTGACGGAATGTGCAAAGTAGCAATTAAC
TGGTCTGGAGGGTGGCATCATGCAAAGAAAGATGAAGCATCTGGTTTTTGTATCTCAATGATGCTGCTCTGGGA
ATATTACGATTGCGACGGAAATTTGAGCGTATTCTCTACGTGGATTTGGATCTGCACCATGGAGATGGTGTAGAA
GACGCATTCACTTTACCTCCAAAGTCATGACCGTGTCCCTGCACAAATTCTCCCCAGGATTTTCCCAGGAACA
GGTGACGTGCTGATGTTGGCCTAGGGAAGGGACGGTACTACAGTGTAATGTGCCCATTCAGGATGGCATACAA
GATGAAAAATATTACCAGATCTGTGAAAGTGTAAGGAAGTATACCAAGCCTTTAATCCCAAAGCAGTGGTC
TTACAGCTGGGAGCTGACACAATAGCTGGGGATCCCATGTGCTCCTTTAATGACTCCAGTGGGAATTGGCAAG
TGCTTTAAGTACATCCTTCAATGGCAGTTGGCAACACTCATTTTGGGAGGAGGAGGCTATAACCTTGCCAACACG
GCTCGATGCTGGACATACTTGACCGGGGTCATCCTAGGGAACACTATCCTCTGAGATCCCAGATCATGAGTTT
TTCACAGCATATGGTCCTGATTATGTGCTGGAATCACGCCAAGCTGCCGGCCAGACCGCAATGAGCCCCACCGA
ATCCAACAAATCCTCAACTACATCAAAGGGAATCTGAAGCATGTGGTCTAGTTGACAGAAAGAGATCAGGTTTCC
AGAGCTGAGGAGTGGTGCCTATAATGAAGACAGCGTGTATGCAAGCAGTTTGTGGAATTTGTGACTGCAGGGA
AAATTTGAAAGAAATTACTTCTGAAAATTTCCAAGGGGCATCAAGTGGCAGCTGGCTTCTGGGGTGAAGAGGC
AGGCACCCAGAGTCTCAACTGGACCTAGGGGAAGAAGGAGATATCCCACATTTAAAGTTCTTATTTAAAAAAA
CACACACACACAAATGAAATTTTTAATCTTTGAAAATTATTTTTAAGCGAATTGGGGAGGGGAGTATTTAATCA
TCTTAAATGAAACAGATCAGAAGCTGGATGAGAGCAGTCACCAGTTTGTAGGGCAGGAGGCAGCTGAGAGGCAGG
GTTTGGGCCTCAGGACCATCCAGGTGGAGCCCTGGGAGAGAGGGTACTGATCAGCAGACTGGGAGGTGGGGAGAA
GTCCGCTGGTGTGTTTTAGTGTTATATATCTTTGGTTTTTTTAATAAAATCTTTGAAAACCTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 6223

MEEPEEPADSGQSLVPVYIYSPEYVSMCDLAKIPKRASMVHSLIEAYALHKQMRIVKPKVASMEEMATFHTDAY
LQHLQKVSQEGDDDDHPDSIEYGLGYDCPATEGIFDYAAAIGGATITAAQCLIDGMCKVAINWSGGWHHAKKDEAS
GFCYLNDVILGILRLRRKFERILYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGRIY
SVNVPIQDGIQDEKYYQICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMTPVGIGKCLKYILQWQLATLI
LGGGGYNLANTARCWYLTGVILGKTLSEIPDHEFFTAYGPDYVLEITPSCRPRNEPHRIQQILNYIKGNLKH
VV

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FIGURE 6224

AAGACGGAGGTCCTCTTTTCCTTGCCCTAACGCAGCCATGGCTCGTGGTCCCAAGAAGCATCTGAAGCGGGTGGCAG
CTCCAAAGCATTGGATGCTGGATAAAATTGACCGGTGTGTTTGCTCCTCGTCCATCCACCGGTCCCCACAAGTTGA
GAGAGTGTCTCCCCCTCATCATTTTTCCTGAGGAACAGACTTAAGTATGCCCTGACAGGAGATGAAGTAAAGAAGA
TTTGCAATGCAGCGGTTTCAATTAATAATCGATGGCAAGGTCCGAACCTGATATAACCTACCCTGCTGGATTTCATGGATG
TCATCAGCATTGACAAGACGGGAGAGAATTTCCGTCTGATCTATGACACCAAGGGTCGCTTTGCTGTACATCGTA
TTACACCTGAGGAGGCCAAGTACAAGTTGTGCAAAGTGAGAAAGATCTTTGTGGGCACAAAAGGAATCCCTCATC
TGGTGACTCATGATGCCCCGACCATCCGCTACCCCGATCCCTCATCAAGGTGAATGATACCATTTCAGATTGATT
TGGAGACTGGCAAGATTACTGATTTTCATCAAGTTCGACACTGGTAACCTGTGTATGGTGACTGGAGGTGCTAACC
TAGGAAGAATTGGTGTGATCACCAACAGAGAGAGGCACCCTGGATCTTTTGACGTGGTTCACGTGAAAGATGCCA
ATGGCAACAGCTTTGCCACTCGACTTTCCAACATTTTGTATTGGCAAGGGCAACAAACCATGGATTTCTCTTC
CCCGAGGAAAGGGTATCCGCCTCACCATTGCTGAAGAGAGAGACAAAAGACTGGCGGCCAAACAGAGCAGTGGGT
GAAATGGGTCCCTGGGTGACATGTCAGATCTTTGTACGTAATTAATAATATTGTGGCAGGATTAATAGCAAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 6225

MARGPKKHLKRVAAPKHWMLDKLTGVFAPRPSTGPHKLRECLPLIIFLRNRLKYALTGDEVKKICMQRFIKIDGK
VRTDITYPAGFMDVISIDKTGENFRLIYDTKGRFAVHRITPEEAKYKLCKVRKIFVGTGKIPHLVTHDARTIRYP
DPLIKVNDTIQIDLETGKITDFIKFDTGNLCMVTGGANLGRIGVITNRERHPGSFDVVHVKDANGNSFATRLSNI
FVIGKGNKPWISLPRGKGIRLTIAEERDKRLAAKQSSG

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FIGURE 6226

ATGGGTCCACGTCTTGACGCTACAGCTGCTGCAGCTACTCCTGCTGTCCGCACCGTTCCACAGTATAAATATGCT
GCGGGAGTTTGCAATCCTCAGCAACATCTTAATGCACAGCCACAAGTTACAGTGCAACAGCCTGCTATTCATGTA
CAAGGTCAGGAACCTTTGACTGTTTCCATGTTGGCATCTGCCCCCTCAAGAGCAAAGCAAATGTTGGGTGAATGG
CTGTTTCCTCTTATTCAAGCCATGCACCCTACTCTTGCCGGTAAAATCACTGGCGTGTTGTTGGAGATTGATAAT
TCAGAACTTCTTCATATGCTCAAGTCTCCAGAGTCACTCCATTCTAAGGTTGATGAAGCTGTAGCTGTACTACAA
GCCCACCAAGCTAAAGAGACTGCCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAACGTGTTTAA

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FIGURE 6227

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCAATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACGTATATGCAAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATACTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGCATGAATGAAAATGATCAGAGAA
AGAAATAAGCCAAAGAGAAAGGTACCTGTGTTCAACTAAAGTGCCAGCCTGCTCCACCCAGAGAAGCACACTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCTCTATGAATTTATGGCATAATAGGTGTTAAAAA
ATAAATAAAAGACATCTGGGCTGT

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FIGURE 6228

ATGAGATCTGGTTGTTCCCTGGGTATCACCAATGATGTTACCCAGTCCATGGAGATTAGTTCCACCTTCTGGGTG
TTGGGAGTAGTTCCAGCACTTCCAGAGCCTTCTCTCTCCTGTGCAAAATAGCAACTCTTAAGGAAAAACTCATT
GTACCAGTTGCGGAAGAAGAGGCAACAGTCCAAAACAATAAGATCACTGTAGTGAGTGTTGGACAAGTTGGTATG
GCGTGTGCTATCAGCATTCTGGGAAAATCTCTGGCTGATGAATTTGCTTTTGTGGATGTTTTGGAAGATAAGCTT
AAAGGAGAAATGATGGATCTGCAGCATGGGAGCTTATTTCTCAAGAAGCTTAAAATTGTGGCAGATAAAGATTAT
TCTGTGACTGCCAGTTATAAGATTGTAGTGGTAACTTCAGGAGTCCTTCAGCAAGAGGGGGAGAGGCGGGACATT
CTTACGTATGTTACCTGGAAAATAAGTGGATTACTCAAACACCATGTGATTGGAAGTGGATGTAATCCGGATTCT
GCTAGATTTCACTGCCTTATGGATGAAAAATTTGGCATTTCATCCCAGCAGCTGCCATGGAAGGATTTTGGGGGAA
CATAGTGACTCAAGTGTGGCTGTGTGGATTGGCATGAATGTGACAGGTTTTTCTCTCCAGGAATTGAATCCAGAA
ATAGGAACTGACAATGATAGTAAAAATTGGAAAGAAGTGCATAAGATGGTGGTTGAAAATGCCTATGAAGTCAAC
AAGCTAAATGGATATACCCACTGGGATATTGGATTAAGTGTGGCTGATCTCATTGAATCCATGTTGAAAAATCTA
TCCAGGATTCATCTCGTGTCAACAATGGTAAAGGGGATGTATGGCATCGAGAATGAAGTCTTCCTGAGCCTTCCA
TATATCCTCAATGCCCGGGGATTAACCAGCGTTATCAACCAGAAGCTAAAGGATGATGAGGTTGCTCAGTTCAAG
AAAAGTACAGATACCCCGTGGGACATCCAGAAGGACCTAAAAGACCTGTGA

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FIGURE 6229

ACTTATAGAAGGGAGAGGAGCGAACATGGCAGCGCGTTGGCGGTTTTGGTGTGTCCTGTGACCATGGTGGTGGC
GCTGCTCATCGTTTGGCGACGTTCCCTCAGCCTCTGCCCAAAGAAAAGAGGAGATGGTGTATCTGAAAAGGTTAG
TCAGCTGATGGAATGGACTAACAAAAGACCTGTAATAAGAATGAATGGAGACAAGTTCCGTCGCCTTGTGAAAGC
CCCACCGAGAAATTACTCCGTTATCGTCATGTTCACTGCTCTCCAACATGCATAGACAGTGTGTCGTTTGCAAGCA
AGCTGATGAAGAATTCCAGATCCCTGGCAAACCTCTGGCGATACTCCAGTGCATTACCAACAGGATATTTTTTGC
CATGGTGGATTTTGATGAAGGCTCTGATGTATTTAGATGCTAAACATGAATTCAGCTCCAACCTTTCATCAACTT
TCCTGCAAAGGGAAACCCAAACGGGGTGATACATATGAGTTACAGGTGCGGGGTTTTTCAGCTGAGCAGATTGC
CCGGTGGATCGCCGACAGAACTGATGTCAATATTAGAGTGATTAGACCCCCAAATTATGCTGGTCCCCTTATGTT
GGGATTGCTTTTGGCTGTTATTGGTGGACTTGTGTATCTTCGAAGAAGTAATATGGAATTTCTCTTTAATAAAAC
TGGATGGGCTTTTGCAGCTTTGTGTTTTGTGCTTGCTATGACATCTGGTCAAATGTGGAACCATATAAGAGGACC
ACCATATGCCCATAGAATCCCCACACGGGACATGTGAATTATATCCATGGAAGCAGTCAAGCCCAGTTTGTAGC
TGAAACACACATTGTTCTTCTGTTTAAATGGTGGAGTTACCTTAGGAATGGTGTCTTTTATGTGAAGCTGCTACCTC
TGACATGGATATTGGAAGCGAAAGATAATGTGTGTGGCTGGTATTGGACTTGTGTATTATTCTTCAGTTGGAT
GCTCTCTATTTTATGATCTAAATATCATGGCTACCCATACAGCTTTCTGATGAGTTAAAAAGGTCCTCAGAGATAT
ATAGACACTGGAGTACTGGAATTGAAAAACGAAATCGTGTGTGTTTGAAGAAGAATGCAACTTGTATATTT
TGTATTACCTCTTTTTTCAAGTGATTTAAATAGTTAATCATTTAACCAGGAAGATGTGTAGTGCCTTAACAAG
CAATCCTCTGTCAAAATCTGAGGTATTTGAAAATAATTATCCTCTTAACCTTCTCTTCCAGTGAACCTTATGGA
ACATTTAATTTAGTACAATTAAGTATATTATAAAAAATTGTAAACTACTACTTTGTTTTAGTTAGAACAAAGCTC
AAAACACTTTTAGTTAACTTGGTCATCTGATTTTATATTGCCTTATCCAAAGATGGGGAAAGTAAGTCTTGACCA
GGTGTTCACATATGCCTGTTACAGATAACTACATTAGGAATTCATTCTTAGCTTCTTCATCTTTGTGTGGATG
TGTATACTTTACGCATCTTTCCTTTTGAGTAGAGAAATTATGTGTGTGTCATGTGGTCTTCTGAAATGGAACACCA
TTCTTCAGAGCACACGTCTAGCCCTCAGCAAGACAGTTGTTTCTCCTCCTCCTTGATATTTCTACTGCGCTCC
AGCCTGAGTGATAGAGTGAGACTCTGTCTCAAAAAAAGTATCTCTAAATACAGGATTATAATTTCTGCTTGAGT
ATGGTGTAACTACCTTGTATTTAGAAAGATTTAGATTCAATCCATCTCCTTAGTTTTCTTTAAGGTGACCCA
TCTGTGATAAAAAATATAGCTTAGTGCTAAATCAGTGTAACCTATACATGGCCTAAAATGTTTCTACAAATTAGA
GTTTGTCACTTATTCCATTTGTACCTAAGAGAAAAATAGGCTCAGTTAGAAAAGGACTCCCTGGCCAGGCGCAGT
GACTTACGCCTGTAATCTCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACGAGGTCAGGAGTTCGAGACCATCC
TGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATATAAAAAATTAGCTGGGTGTGGTGGCAGGAGCCTGTAATC
CCAGCTACACAGGAGGCTGAGGCACGAGAATCACTTGAACCTCAGGAGATGGAGGTTTCAGTGAGCCAAGATCACA
CCACTGCACTCCAGCCTGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAA

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FIGURE 6230

AAGCCTCCGGAGCGCACGTCGGCAGTCGGCTCCCTCGTTGACCGAATCACCGACCTCTCTCCCCAGCTGTATTTCCAA
AAATGTCGCTTTTCTAACAAGCTGACGCTGGACAAGCTGGACGTTAAAGGGAAGCGGGTCGTTATGAGAGTCGA
CTTCAATGTTTCTATGAAGAACAACCAGATAACAAACAACCAGAGGATTAAGGCTGCTGTCCCAAGCATCAAATT
CTGCTTGGACAATGGAGCCAAGTCGGTAGTCCTTATGAGCCACCTAGGCCGGCCTGATGGTGTGCCCATGCCTGA
CAAGTACTCCTTAGAGCCAGTTGCTGTAGAACTCAAATCTCTGCTGGGCAAGGATGTTCTGTTCTTGAAGGACTG
TGTAGGCCCAAGAAGTGGAGAAAGCCTGTGCCAACCCAGCTGCTGGGTCTGTCACTCTGCTGGAGAACCTCCGCTT
TCATGTGGAGGAAGAAGGGAAGGGAAGATGCTTCTGGGAACAAGGTTAAAGCCGAGCCAGCCAAAATAGAAGC
TTTCCGAGCTTCACTTTCCAAGCTAGGGGATGTCATGTCAATGATGCTTTTGGCACTGCTCACAGAGCCACAG
CTCCATGGTAGGAGTCAATCTGCCACAGAAGGCTGGTGGGTTTTTGATGAAGAAGGAGCTGAACTACTTTGCAA
GGCCTTGGAGAGCCCAGAGCGACCTTCCCTGGCCATCCTGGGCGGAGCTAAAGTTGCAGACAAGATCCAGCTCAT
CAATAATATGCTGGACAAAGTCAATGAGATGATTATTGGTGGTGGGAATGGCTTTTACCTTCCTTAAGGTGCTCAA
CAACATGGAGATTGGCACTTCTCTGTTTGATGAAGAGGGAGCCAAGATTGTCAAAGACCTAATGTCCAAAGCTGA
GAAGAATGGTGTGAAGATTACCTTGCTGTGACTTTGTCACTGCTGACAAGTTTGATGAGAATGCCAAGACTGG
CCAAGCCACTGTGGCTTCTGGCATACTGCTGGCTGGATGGGCTTGGACTGTGGTCCTGAAAGCAGCAAGAAGTA
TGCTGAGGCTGTCACTCGGGCTAAGCAGATTGTGTGGAATGGTCCTGTGGGGTATTGAATGGGAAGCTTTTGC
CCGGGGAACCAAAGCTCTCATGGATGAGGTGGTGAAGCCACTTCTAGGGGCTGCATCACCATCATAGGTGGTGG
AGACACTGCCACTTGCTGTGCCAAATGGAACACGGAGGATAAAGTCAGCCATGTGAGCACTGGGGGTGGTGCCAG
TTTGGAGCTCCTGGAAGGTAAAGTCCTTCCCTGGGGTGGATGCTCTCAGCAATATTAGTACTTTCTGCCTTTTA
GTTCTGTGCACAGCCCCCTAAGTCAACTTAGCATTTTCTGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGT
CAAGATTCAGCTAGTGGCCAAGAGATGCAGTGCCAGGAACCCCTTAAACAGTTGCACAGCATCTCAGCTCATCTTC
ACTGCACCCTGGATTTGCATACATTCTTCAAGATCCCATTTGAATTTTTTAGTGACTAAACCATTGTGCATTCTA
GAGTGATATATTTATATTTTGCCTGTTAAAAAGAAAGTGAGCAGTGTTAGCTTAGTTCTCTTTTGATGTAGGTT
ATTATGATTAGCTTTGTCACTGTTTCACTACTCAGCATGGAAACAAGATGAAATTCCATTTGTAGGTAGTGAGAC
AAAATTGATGATCCATTAAAGTAAACAATAAAAGTGTCATTG

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FIGURE 6231

MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMShLGRPDGVPMPDK
YSLEPVAVELKSLLGKDVLFLLKDCVGPEVEKACANPAAGSVILLENIRFHVVEEGKGKDASGNKVKAEPKIEAF
RASLSKLGDVYVNDAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPPERPFLAILGGAKVADKIQLIN
NMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAENGVKITLPVDFVTADKFDENAKTGQ
ATVASGIPAGWMGLDCGPRESSKKYAEAVTRAKQIVWNGPVGVFWEAFARGTKALMDEVVKATSRGCITIIIGGD
TATCCAKWNTEDKVSHVSTGGGASLELLEGGVLPGVDAISNI

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FIGURE 6232

CTCCCTGCCTCCGCGCTGCAGCCCCTGCCGTAGCCGCCCTGAGCCCGCCACCACCGCCTCTGAGCAGAAGATGG
CTGTGCCACCTACGTATGCTGATCTTGGCAAATCTGCCAGGGATGTCTTCACTGAGGGCTATGGATTTGGCTTAA
TAAAGCTTGATTTGAAAACAAAATATGAGAATGGATTGGAATTTACAAGCTCAAGCTCAGCCAACACAGACCACC
AAAGTGACGGGCAGTCTGGAAACCAAGTACAGATGGACTGAGTACGGCCTCACGTTTACAGAGAAATGGAACACC
GACAATACACTAGGCACCAAGATTACTGTGGAAGATCAGCTTGCACGTGGACTGAAGCTGACCTTCGATTCATCC
TTTTACCTAACACTGGGAAAAAAATGCTAAAAATCAAGACAGGGTACAAGCGGGAGCACATTAACCTGGGCTGC
GACATGGTTTTTCGACATTGTTGGGCCTTCCATCCGGGGTGCTCTGGTGCTGGGTACGAGGGCTGGCTGGCCGGC
TATCAGATGAATTTTGAGACTACAAAATCCCGAGTGACCCAGAGCAACTTTGCAATTGGCTACAAGACTGATGAA
TTCCAGCTTCACACAAATGTGAATGACGGGACAGAGTTTGGCGGCTCCATTTACCAGAAAGTGAACAAGAAGTTG
GAGACCACCGTCAATCTTGCCCTGGACAGCAGGAAACAGTAACACGCGCTTCGGAATAGCAGCCAAGTATCAGATT
GACCCTGACGCCTGCTTCTCGGCTAAAGTGAACAACTCCAGCCTGATAGGTTTAGGATACACTCAGACTCTAAAG
CCAGGTATCAAACCTGACACTGTCAGCTCTTCTGGATGGCAAGAACGTCAATGCTGGTGGCCACAAGCTTGGTCTA
GGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTTAAATTTTAACTATTTTGCAGCATAGCTACCTTC
AGAATTTAGTGTTATCTTTTAAATGTTGTATGTCTGGGATGCAAGTATTGCTAAATATGTTACCCCTCCAGGTAA
AGATGATTCAGCTTTAAGATGTTACCCCTCCAGAGGTACAGAAGAAACGCATTTCCAAAAAAGGTTCTTTCAGTG
GTAGACTCGGGGAGAACTTGGTGGCCCCCTTGAGGTGCCAGGTTTCTTTTTCATCTAGAGATGGCTGCGAGTGGA
AGCTGATAATATGTAGGCACCTTGTAAATTCATATTGAGTAAATGAATGAAATTGTGATTTCTTGAGAATCGAAC
CATGGTTTCTTAACCCTAATTGATGAGAGGCTCGCTGCTTGATGGTGTGTACAAGCTCACCTGAATGGGACTTTT
TTAGACAGATCTTCATGACCTGTTCCACCCAGTTCATCATCATCTCTTTTACACCAAAGGTCTGCAGGGTGT
GGTCACTCTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTAGATGTGATGAAACCAATAATTCAGGACTTATTCC
TTCTTGTTGTGTGTTTTTTTTTGGCCCTTGACCAGAGTATGAAATAGCTTCCAGGAGCTCCAGCTATAAGCTTGG
GAGTGTCTGTGTGATTGTAATCACATGGTGACAGCACTCAGAATCTAAATTGGACTTCTGCTGTATTCTCACCAC
TCAATTTGTTTTTTAGCAATTTAATGGCTACATTTTAGAGTCTTCCATTTTTTGTGGAATTAGATCCTCCCCTTC
AAATGCTGTAATTAACATCACTTAAGAAAACCTTGAATAAAATGTTGAAACCTC

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FIGURE 6233

TAGCTGGATTCCAGCCATTGCTGCAGCTGCTCCACAGCCCTTTTCAGGACCCAAACAACCGCAGCCGCTGTTCCC
AGGATGGTGATCCGTGTATATATTGCATCTTCCTCTGGCTCTACAGCGATTAAAGAAGAAACAACAAGATGTGCTT
GGTTTCCTAGAAAGCCAACAAAATAGGATTTGAAGAAAAAGATATTGCAGCCAATGAAGAGAATCGGAAGTGGATG
AGAGAAAATGTACCTGAAAATAGTCGACCAGCCACAGGTTACCCCTGCCACCTCAGATTTTCAATGAAAGCCAG
TATCGCGGGGACTATGATGCCTTCTTTGAAGCCAGAGAAAATAATGCAGTGTATGCCTTCTTAGGCTTGACAGCC
CCACCTGGTTCAAAGGAAGCAGAAGTGCAAGCAAAGCAGCAAGCATGAACCTTAAGCACTGTGCTTTAAGCATCC
TGAAAAATGAGTCTCCATTGCTTTTATAAAATAGCAGAATTAGCTTTGCTTCAAAAGAAATAGGCTTAATGTTGA
AATAATAGATTAGTTGGGTTTTACATGCAAAACATTCAAAATGAATACAAAATTAATAATTTGAACATTATGGTGA
TTATGGTGAGGAGAATGGGATATTAACATAAAATTATATTAATAAGTAGATATCGTAGAAATAGTGTGTTACCT
GCCAAGCCATCCTGTATACACCAATGATTTTACAAAGAAAACACCCTTCCCTCCTTCTGCCATTACTATGGCAAC
TTAAGTGTATCTGCAGCTCTACATTAAAAAGGAGAAAGAGAAATAACCTGTCTCTCATTCTTAAGTTGCCTCATT
AATTTTCATGAACAAGAATATGTACCTTTTGTATGCTATATTACTGCGATTAAAAAGTTCTTGCAGGTAATGTTT
ATGATATGTTAAACGTTGTAATTTCTATCGTAATTATAACATTCCCATTCTTTGTAGATGAACTTCTACATA
TTGAACCACAGATTTTCTGAGCTTCTAAATGTAGCCTTTCATTGCACATTTAGTGATCAGAATAGATATCCTTT
TACACGCACAAAAGCAATAGATTCATTAGTGACAAAGTTCCTTGTTAACTACACAGCTATGATGGAATGATAT
ATCCAAGTTCCCTTGCTCAGTGAAATATGCATATGTATATCATGAAAGTGGGATGCCAAGTAAGCTTAAATGGC
ATTCTCTAGCAAAGAGATTAGACTTTTAAATAACTCTTATAAAACAGGTTGGCGATCATTCCCAAGATTGGTTT
CCCTTGAGTTTTTGTCTAAAACAAATCTTAGTAGTTTTGCCCGTTTAAAACAACCTCACAATCGTAAATGCTACTAT
TCCTAAGATATCTTACCTTTTTTATTTAGTTTAGCCATGTATTGTATGAGTGTATTAGTCTAAGCAGTGAGAATC
TTTTCTATGCCTCTATTCCAGCAAAAAGTAGAAGTATCAAATAAAAAGGGCAACTTTTAAATATTAAGCCTGAA
GACTTCTAAAAGACAAGAAACATGGCCTAAATAACCAACATAGATTTACATAGTAAGTTTACACTACCTTATT
ACCAAAGCAAACACCTCTTACTTTAAACTACATTATCATGTATATCTATTGTATGCTGGTCTTTACTTTTTGCC
AAAATCAACATATAATGAAGAGATGCCTTTGTTTCATGAGATTCAAACCTTGATGCTATGCTTTAAAATAAACTCA
GTACTTTTAGAAACAT

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FIGURE 6234

MVIRVYIASSSGSTAIAKKKQQDVLGFLEANKIGFEEKDIAANEENRKWMRENVPENSRPATGYPLPPQIFNESQY
RGDYDAFFEARENNAVYAFGLGTAPPGSKEAEVQAKQQA

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FIGURE 6235

TTTCCGCACTACCTACAGAGGGGTCCATAGGGGGTTGTTCTAGATTCCCGTCGTAACCTTAAAGGGAACTTTTCAC
AATGTCGGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCCTTGACGACAGGAACCCACTT
AGGTGGCACC AATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGACAGCTCGTGCTATTGTTGCCATTGAAAACCCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTTGGTTAG
TGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTCTGCACTATGTGGACATTGCCATCCCATGCAACAACAAGGGAACCTCACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGCCACCATTTCCCGTGAACACCCATGGGAGGTCATGCCTGA
TCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAATGACCAGGGA
GGAACCTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTACAGCAGTTCCCTACTGAAGACTGGAGCACTCAGCGTGCCACGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 6236

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLTARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAREPRLVVSDDPRADHQPLTEASYVNLPTIALCNT
DSPLHYVDIAIPCNNKGTHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAMTRE
ELQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSTQRATEDWSAAPTQAQATEWVGATTDWS

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FIGURE 6237

GATCATGTCTGTAAGCCAGGATTCCCTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGAAGGCGTCATCGA
GAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCGTGACATCTATGC
CTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTATAATGTAATCGC
TCAAGCCTGATCTGGGACTGGGAAAATGGCCACATTTGCCATATCGATTCTGCAGCAGATTGCATTAGATCTAAA
AGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGTCATGGCACTAGT
AGACTACATGGGTGCCTCCTGTTCATGCCTGTATCAGGGGCACCAATGTGCGTGCTGAGGTGCAGAACTGCAGAT
GGAAGCTCCCCACATCATCGTGGGTACCCCTAGCTGTGTGTTTGATATGCTTAACCGGAGATACCTATCTCCAA
ATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGATCTATGACAT
ATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTGCTAGCTACAATGCCTTCTGATGTGCTTGAGGTGAT
CAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGGTATCCGCCAATT
CTACATCAACGTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCTGACCATCACCCA
GGCAGTCATCTTCATCAATACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAGATTTCACTGT
CTCCGCCATGCATGGAGATATGGACAAAAGGAGCGAGACGTGATCACGAGGGAGTTTCGTTCTGGCTCTAGCAG
AGTTTTGATTACCACTGACCTGCTGGGAAAATATATCCACAGAATCAGTCGAGGTGGACAGTTTGCCCGTAAAG
ATGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCA
TTGAGGAAATGCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCCTGCCACCCAGCCCCAGCCAGGGCTCAAT
CTCGGGGGCTGAGGAGCAGCAGGAGAGGGGAAGGAAGGGAGCCAAGGGATAGACATCTTGTCAATTTTTTTTCTT
TGAATAAATGTCACTTTTTTGAGGCAAAA

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TCGTCGGCAAAGCCTGAGTCTCTGTCTATCTCTCTCTCTCCCGGACAGCATGAGCTTCACCACTCGGTCCACCTT
CTCCACCAACTACCAGTCACTGGGCTCTGTCCAGGCGCCAGCTACGGCGCCCGGCCGGTCAGCAGCGCGGCCAG
CGTCTATGCAGGCGCCGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCCGGGGTGGCATGGG
GCCTGGGGGCTTGGCCGCGGGGATGGCTGGGGGTCTGGCAGGAATGGGAGGCATCCAGAACAAGAAGACCATGCA
AAGCCTGAACGACCGCCTGGCCTCTTACCTGGACAGAGTGAGGAGCCTGGAGACTGAGAACCGTAGGCTGGAGAG
CAAAATCCGGGAGCACTTGGAGAATAAGGGACCCAGGTCAAAGACTGGAGCCATTACTGCAAGACCATCGAGGA
CCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCTGCATCGTTCTGCATATTGACAATGCCCGTCTTGC
TGCTGATGACTTTAGAGTCAAGTATGAGACACAGCTGGCGATGCGCCAGTCTGTGGAGAACGACATCCATGGGCT
CCGCAAGGTCATTGATGACACCAATGTCACTTGACTGCAGCTGGAGACAGAGATTGAGGCTCTCAGGGAGGAGCT
GCTCTTCATGAAGAACCACGAAGAGGAAGTAAAGGCCTACAAGCCCAGATTGCCAGCTTTAGGTTGACCGTGGA
GGTAGATGCCCCCAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGCCCCAATATGACGACCTGGCTGG
GAAGAACCGAGAGGAGCTAGACAAATACTGGCCTCAGCAGTTTGAGGAGAAACACCACAGTGGTCACCACAGTCCG
CCGAGGTTGGAGCTGCTGAGATGACGCTCACAGAGCTGAGACGTACAGTCCAGTCCCTTGGAGATCGACCTGGACT
CCATGAGAAATCTGAAGGCCAGCTTGGAGAACAACCCGAGGGAGGTGGAGGCCCCGCTACTCCCTACAGATGGTGC
AGCTCATCGGGATCTCTGCTGCACCTGGAGTCAGAGCTGGCACAGACCCGGGCAGAGAGACAGTGCCAGGCCCCAGG
AGTAATGAGGCCCTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCGCTGCTGGAAGAT
GGCAGGACCTTCACTCTTGGTGATGCTTGGACAGCAGGAATCCATGCAAACCATCCAAAAGACCACCACCCGC
CGGAAAGTGATGGCAAAGTGGTGTCTGAGACCAACAACCAAGTCTGAGGCATTAAGCCAGCAGAAGCAGG
GTACCCCTTTGGGGAGCAGGAGGCCAATAAAAAGTACAGATT

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FIGURE 6239

CGGAAGCCGACTCAACAGAGCTATGGCGGGTTTGACTGTGAGAGACCCAGCGGTGGATCGTTCTCTACGTTCTGT
GTTTCGTGGGGAACATTTCCTTATGAAGCTACTGAAGAGCAGTTGAAGGACATCTTTTCTGAGGTTGGACCTGTTGT
TAGTTTCAGATTGGTATACGATAGAGAGACAGGAAAGCCAAAGGGTTATGGCTTCTGTGAATACCAAGACCAAGA
GACAGCACTTAGTGCCATGCGGAACCTGAATGGGCGCGAATTCAGTGGGAGAGCACTTCGAGTGGACAATGCTGC
CAGTGAAAAGAACAAGAAGAGCTGAAGAGCCTTGCGACTGGTGGCCCTGTCATTGAGTCACCTTATGGAGAGAC
CATCAGTCCTGAGGATGCCCTGAGTCCATTAGCAAAGCAGTTGCCAGCCTTCCACCAGAGCAGATGTTTGAGCT
GATGAAACAAATGAAGCTCTGTGTCCAGAATAGTCCCCAGGAGGCACGGAACATGTTACTTCAGAACCCTCAACT
GGCTTATGCTTTGCTGCAAGCACAGGTAGTGATGAGAATTGTGGATCCGGAATTCGCCCTGAAAATTCTGCATCG
CCAGACAAATATCCCAACGCTGATTGCAGGCAACCCCTCAGCCAGTCCATGGTGCTGGGCCTGGCTCAGGATCCAA
TGTGTCAATGAACCAGCAGAATCCTCAGGCCCCCTCAGGCCAGTCTTTGGGTGGAATGCATGTCAATGGCGCACC
TCCTCTGATGCAAGCTTCTATGCAGGGTGGAGTTCCAGCACCAGGGCAAATGCCAGCTGCTGTACAGGACCTGG
CCCTGGTTTCCTTAGCTCCTGGAGGAGGAATGCAGGCTCAGGTTGGAATGCCAGGAAGTGGACCAGTGTCCATGGA
ACGGGGGCAAGTGCCGATGCAAGACCCAGAGCAGCTATGCAGCGGGGATCCTTGCCCTGCGAATGTCCCAACCCC
TCGAGGCTTGTTAGGAGATGCTCCGAATGATCCACGGGGAGGCACTTTACTTTCTGTAAGTGGAGAGGTAGAGCC
TAGAGGTTACTTGGGACCACCTCATCAGGGTCCACCCATGCACCATGTCCCTGGCCATGAGAGCCGAGGACCACC
CCACATGAAGTGAAGGGGAGGGCCATTACCCGAGCCCAGACCTCTAATGGCAGAACCAAGAGGACCCATGCTAGA
TCAGAGGGGTCCACCCTTGATGGCAGAGGTGGAAGGGATCCCCGAGGAATAGATGCACGAGGGATGGAGGCCG
AGCCATGGAGGCAAGAGGGTTAGATGCCAGAGGATTAGAGGCCCGTGCAATGGAGGCCGTGCGATGGAAGCTCG
TGCAATGGAGGCCCGAGCGATGGAGGCCCGTGCAATGGAAGTCCGAGGGATGGAGGCCAGAGGCATGGATACCA
AGGCCAGTGCCTGGCCCCAGAGGACCTATACCTAGTGGAATGCAGGGTCCCAGTCCAATTAACATGGGGGCGGT
TGTCCCCCAGGGATCCAGACAGGTCCCAGTCATGCAGGGAACAGGAATGCAAGGAGCAAGTATACAGGGGTGGAAG
CCAGCCTGGCGGCTTTAGTCCCGGGCAGAACCAAGTCACTCCACAGGATCATGAGAAGGCTGCTTTGATTATGCA
GGTTCTACAAGTACTGCAGACCAGATTGCCATGTTGCCTCCTGAGCAAAGGCAGAGTATCCTGATTTTAAAGGA
ACAAATACAGAAATCCACTGGAGCACCTTGATAGGTTTTTCAAAAATACCTGGCAAGAAATCTGGAAATCTATAA
TTTTGTTGAAATATTGAAAAAAGATGACCTGCATCCTAACCCCTGAATGACTCAAATCAGTGCCAGGTGGAGGAC
TCCCATCACCTTCTCTCAGAACAAAATCATTTCATTTTATTGTCTTAGTTTGTATATTTCTGTGACTTGAAATA
AACTTTGAACACAATTTTAGTACACTGC

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FIGURE 6240

MAGLTVRDPVDRSLRSVFGNIPYEATEEQLKDI SEVGPVVSFRLVYDRETGKPKGYGFCEYQDQETALSAMR
NLNGREFSGRALRVDNAASEKNKEELKSLGTGAPVIESPYGETISPEDAPESISKAVASLPPEQMFELMKQMKLC
VQNSPQEARNMLLQNPQLAYALLQAQVVMRIVDPEIALKILHRQTNIPTLIAGNPQPVHGAGPGSGSNVSMNQON
PQAPQAQSLGGMHVNGAPPLMQASMQGGVPAPGQMPAAVTGPGPGSLAPGGGMQAQVGMPSGSPVSMERGQVPMQ
DPRAAMQRGSLPANVPTPRGLLGDAPNDPRGGTLLSVTGEVEPRGYLGPPHQGPPMHVPGHESRGPPPHEL RGG
PLPEPRPLMAEPRGPMLDQRGPPLDGRGGRDPRGIDARGMEARAMEARGLDARGLEARAMEARAMEARAMEARAM
EARAMEVRGMEARGMDTRGPVPGPRGP IPSGMQGPSP INMGAVVPQGSRQVPVMQGTGMQGASIQGGSQPGGFSP
GQNQVTPQDHEKAALIMQVLQLTADQIAMLPPEQRQSILILKEIQKSTGAP

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FIGURE 6241

AAGGGTTGGCTGCGCGTGCGGCGGGAGTAGAGGCGCCTTGCGCACCAGGAAGTGAAGTGTTCCTCCCGCCGCGAGCAA
ACCAGGCCATCCGCTGGCCTTTTAGTTTGCCGCTCAGGTTTGTAAGAGGATTTATTGGTTACGAAGGAAGGTGG
ATTTCAAGTGTGTTCTTTGGATGGCAGGCTTAAGAGAAGAGTCCCAGTGCACAGCCTCAGATACTTCATCTCCAT
GGTGGGTCTCTTCTCCAAACCAGGACTGCTTCCCTGGTATGCCAGAAATCCACCAGGATGGTCACAGCTCTTTCT
GGGCACAGTATGTAAGGGAGATTTCACCCGTGTGATAGCCACGAAATGTCAGAAAGGACAAAAAGTCAGAAGAA
ACCAAGCCATCTTGGACCACTAGATGGTTCTTGGCAGGAAAGGCTGGCTGATGTTGTGACACCACTCTGGAGGTT
GAGCTATGAAGAACAGCTCAAGGTGAAATTTGCAGCTCAGAAGAAAATTTTACAAAGACTAGAGTCTTACATCCA
AATGCTCAATGGAGTCAGTGTGACAACGGCTGTACCCAAATCTGAGAGGCTCTCTTGTCTTCTCCATCCTATTAT
ACCTCTCCTGTCATCAATGGTTACCGAAATAAGTCCACCTTCTCTGTGAACCGAGGTCCAGATGGCAATCCAAA
GACTGTGGGGTTCTACCTGGGAACCTGGAGAGATGGGAACGTTGTCTGTGTGACAGTCTAATCATCTGAAAAACAT
CCCTGAGAAACACAGTCAAGTGGCGCAGTACTATGAAGTATTCCTTCGACAGTCTCCATTGGAGCCCTGCCCTGT
ATTTCAATGAAGGTGGATACTGGCGTGAGCTCACAGTCCGCACCAATAGCCAAGGGCACACAATGGCTATCATCAC
TTTCCATCCCCAGAAATTAAGTCAGGAGGAGCTCCATGTTGAGAAGGAGATTGTAAAGGAATTTTTCATCAGAGG
TCTTGGAGCAGCCTGTGGCTTGACCTCACTTTACTTCCAGGAAAGTACCATGACCCGTTGCAGCCATCAGCAGTC
TCCCTATCAGCTTCTGTTTGGGGAACCCCTACATCTTTGAAGAACTTCTGAGCTTGAAGATCCGCATCTCTCCAGA
TGCCTTTTTCCAGATTAACACAGCTGGTGCAGAGATGCTGTATCGGACTGTGGGGGAGCTGACTGGAGTGAACCTC
TGACACCATCCTTCTTGACATCTGCTGTGGAACCTGGTGTGATTGGCTCTCTCTGGCTCAGCATACATCTCGGGT
CCTTGGGATTGAATTGTTGGAGCAGGCAAGTGGAGGATGCAAGATGGACTGCAGCCTTCAATGGCATCACCAACTC
TGAATTTTCATACTGGTCAAGCAGAGAAGATTTTGCCAGGGCTGCTAAAGTCAAAGGAAGATGGACAGTCAATTGT
TGCTGTGGTGAACCCAGCCCGTGCCGGAGTGCATTACAAGGTGATTCAAGCCATTGCAAACTTCAGGGCCATCCA
CACGCTAGTTTTTGTTCCTGCAAGCTCCATGGTGAATCCACTAGGAATGTCATTGAGCTGTGCTGTCTCCAGA
CCCTGCTAAGAAGCTCTTAGGCGAGCCCTTTGTCTGCAGCAAGCTGTACCTGTGGATTTGTTCCCTCACACCCC
ACATTGTGAGCTGGTGTCTCTTTACTCGATAAGCAGCCTCCTAGAAGACAGCAGGCTATTTGTTAAGGCTGAA
GTTTCAGAAACTTTTCAGGTTTGGCATATTGCTACATTGCAGACCTGGGAGCATTACAGTGGAAACCAATCTTTG
GTTTGTGAATAGGAAGAATCTATTAGGCCTCTGGTCTGAGGCAGATTTTTTTTTTTGAGATAGAGTCTCACTCTTG
CCCAGGCTGGAGTGTCTGCGTGATCTCAGCTCACTGCAACCTCCGCCTCCCGGTTCAAGTGATTCTCGTGCC
TCAGCTTCCCCAGTAGCTAGGATTAAAGGTGCGTGCCACCATGCCCGGCTAATTTTTGTATTTTGGTAGAGACA
GGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCAAGTGATCCACCCGCTCGGCCTCTCAAAGT
GCTGGGATTATAGGCGTGAGCCACCACACCCCGCCGCGGCTGACTTAACCTTAGATTTAGATTCCCTTTCAATC
ATGCCCGTTTGCTTGGGTTTGACCACTCCCACTCCTGGATCTGGACTGTTTCTTCTGTGCTGTGAGCCTTGG
TTCTAGTTTATAGTCTTGTCTCCTCCGTTTCTGCTTATGGTGTGGACAAATGACCTTTTTTAAGCAGCTGGTAAT
AATTTTACATTGACTGGAGCCTGTGCATTTGCTCAGAGATGCTACAATTTTTTAGATATTTCTAAGACTTCTGGAT
TCTTGAGGTAGTTAAGGATTAAAACCAGAAACAGTCGAGGTTTTTTAAAAGCAGGGTAAGCCATGAAGTGAATAC
AGGGTGACTGAGTGATCATCAGATGAGATTAATCTTTTGGGTTTTCTTGGTTTTAAGGCATCTCGAATGCCCTT
TGAAAATGTAGTTTTTCCCTGGTGGTGGGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGATAATTGCTT
GAACCTGGGAGGTGGAGGTTGCAGTGAGCTGAAATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGTGAGACAC
CATCTC

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FIGURE 6242

GCGGAGTTTCGTCTCTGCAAGCTTGGTCGCCCTGGGATCGATTTCCTCCTCCTCCTCCTCCGCGGCGGGTTTGGGTG
CAGTGGACCCACAGTTGCAGCATTTTCATCGAGGTAGAGACTCAAAAAGCAGCGCTTCCAGCAGCTGGTGCACCAGA
TGACTGAACTTTGTGGGAGAAGTGCATGGACAAGCCTGGGCCAAAAGTTGGACAGTCGGGCTGAGGCCTGTTTTG
TGAAGTGCCTTGGAGCGCTTCATTGATACAAGCCAGTTCATCTTGAATCGACTGGAACAGACCCAGAAATCCAAGC
CAGTTTTCTCAGAAAGCCTTTCTGACTGATCTCAGCATTAACCTCTTTGGAAAAGGAAGGTAGTTCAAGAAATGAA
GAGCTGTTGATGGGATGATTGAAGAAACAGCTATGAGAGGATTGGCTCCCATCTTTTGTTACTCTTGGGACATCC
TGTCATCTGAGAATGAACAAAGACCAATTTTTGTGTGTGAAGCTTAAGGGTCATATGTTTGCTTGTATTTTTTA
ATGCTAATCTTGTGAAAATAATTGACAGGCGAAAGAAAACCTCTATTTAGATGCATATTACTGTACATGGGACTAT
GCTTTTCTCAAAGCCCCATTAAGTCTTCTATAATTTTGATAGTGGGACCACATACGTAAAAATCTCTCATTG
TGTGGAGTCATTTCTGATTTTCAGGGGAGATCCTTGTGTTTATCAGAAAGGGCAGAAGTAGGGGAAGAATAATTG
GTATCCTTATCTAGTGTGTTGATTGTCAATGCTGGAGAAAAATATCTGTAAGAGTGTGTTATACAGTACACTTCAGT
TATCTTGATCTCCCTTTCTATATGATGATTGCTTAAATATCCATATTAAGTAAGTCTCAAGGTAGGGTAGGCA
GCCTGAGAGTCTAGAGGCCTTTAGTTATAAAGGAATCTAGCCAGTGAACATAATTCTTATTACTAGACTGCCACA
AGGAAGAAATTAACCTTACCCTGTATATCAGGGTACAAAAATTCAGTGATGTGCCTAAATAAGTTATAAAGATTT
AGGCCAATCAGAAGCTAACAGCAGTTTCAGGTAGAGGTGCATGCCTAATGTTAGTTAGTGTAGATTCCATTTACT
GCATTCTTCTGATCACTGAAATAAAAGCTATATAAGATTCTATA

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FIGURE 6243

MDSSSSSSAAGLGAVDPQLQHFIEVETQKQRFQQLVHQMTELCWEKCMDKPGPKLDSRAEACFVNCVERFIDTSQ
FILNRLEQTQKSKPVFSESLSD

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FIGURE 6244

GCGGTTTCTTTCTTTCCGCGCCGATAGCGCTCACGCAAGCATGGTTAACGTCCCTAAAACCCGCCGGACTTTCTG
TAAGAAGTGTGGCAAGCACCAACCCCATAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTACGCCCAGGG
AAAGCGGCGTTATGACAGGAAGCAGAGTGGCTATGGTGGGCAAACTAAGCCGATTTTCCGGAAAAAGGCTAAAAC
TACAAAGAAGATTGTGCTAAGGCTTGAGTGCGTTGAGCCCAACTGCAGATCTAAGAGAATGCTGGCTATTAAAAG
ATGCAAGCATTGAACTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATCCAGTTCTTAAGTGTCATCTTTTAT
TATGAAGACAATAAAATCTTGAGTTTATGTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6245

MVNVPKTRRTFCCKCGKHQPHKVTQYKKGKDSLYAQGKRRYDRKQSGYGGQTKPIFRKKAKTTKKIVLRLECVEP
NCRSKRMLAIKRCKHFELGGDKKRKGQVIQF

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FIGURE 6246

CACGTCGGCTGCTGGGAAGATCTGGATTCTCGTTTCAGGTCACCATCAGAAAAGCTAAGTTTGCTGTATAGTGAG
GATCAGGAGATCTGATCCTGATTGCAGAACCTTCCCTGATTACAGAATCTTGGATGATTTACAAAAAGTTCATCT
TCATTGCAGATACCTGCCTTTCTTTCTAGGTTGTATCTCCCACTTCACCTTCTAGACCATCCCAGAAGATCTAT
AAGATTTTCATCTGGGAAATCACTAGGAGTTCTTGGAAAGGGAAAGAAGGAAGATTGTTGGTTGGAATAAAAAACAGG
GTTGAATGAGTTCCAGAAAAGCAGGGTTCTCAACCTCGTGGACAGCAATCTGCAGAAAGAAGAGAACTTCAAAAAAC
CAACTAGAAGCAACATGCAGAGAAGTAAAAATGAGAGGGGCTCCTCAGGAAAGAAGACAGCTGGTCCACAGCAGA
AAAATCTTGAACCAGCTCTCCAGGAAGATGGGGTGGTTCGCTCTGCAGAGAACCCCCCTTCAGGATCCGTGAGGA
AGACCAGAAAGAACAAGCAGAAGACTCCTGGAAACGGAGATGGTGGCAGTACCAGCGAAGCACCTCAGCCCCCTC
GGAAGAAAAGGGCCCGGCAGACCCCACTGTTGAAAGTGAGGAGGCGTTTAAGAATAGAATGGAGGTTAAAGTGA
AGATTCCTGAAGAATTAACCATGGCTTGTGAGGACTGGGACTTAGTTACCAGGCAGAAGCAGCTGTTTCAAC
TCCCTGCCAAGAAAAATGTAGATGCAATTCTGGAGGAGTATGCAAATGCAAGAAATCGCAGGGAAATGTTGATA
ATAAGGAATATGCGGTTAATGAAGTTGTGGCAGGAATAAAGAATATTTCAATGTGATGTTGGGCACTCAGCTGC
TCTACAAATTTGAGAGGCCCCAGTATGCTGAAATCCTCTTGGCTCACCTGATGCTCCAATGTCCAGGTTTATG
GAGCACCACACCTACTGAGATTATTTGTAAGAATTGGAGCAATGTTGGCCTATACGCCCCCTTGATGAGAAAAGCC
TTGCATTATTGTTGGGCTATTTGCATGATTTCTTAAATATCTGGCAAAGAATTCTGCATCTCTCTTTACTGCCA
GTGATTACAAAGTGGCTTCTGCTGAGTACCACCGCAAAGCCCTGTGAGCGTCTACAGACAGCTCACCATTTTGT
CCTGTATCTGTAAACACTTTTGTCTTAGTCTTTTCTTGTAATAATTGATGTTCTTTAAATCGTTAATGTATA
ACAGGGCTTATGTTTCAGTTTGTTCGTTCTGTTTAAACAGAAAATAAAGGAGTGTAAGCTCCTTTTCTCA
TTTCAAAGTTGCTACCAGTGTATGCAGTAATTAGAACAAAGAAGAAACATTAGTAGAACATTTTATTGCCTAGT
TGACAACATTGCTTGAATGCTGGTGGTTCCTATCCCTTTGACACTACACAATTTTCTAATATGTGTTAATGCTAT
GTGACAAAACGCCCTGATTCCCTAGTGCCAAAGGTTCAACTTAATGTATATACCTGAAAACCCATGCATTTGTGCT
CTTTTTTTTTTATGGTGCTTGAAGTAAACAGCCCATCCTCTGCAAGTCCATCTATGTTGTTCTTAGGCATTCT
ATCTTTGCTCAAATTGTTGAAGGATGGTGATTGTTTCATGGTTTTGTATTTGAGTCTAATGCACGTTCTAACA
TGATAGAGGCAATGCATTATTGTGTAGCCACGGTTTTCTGAAAAGTTGATATTTAGGAATTGATTTTCAGATC
TTAAATAAAATTTGTTTCTAAATTC

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FIGURE 6247

MSSRKQGSQPRGQQSAEEENFKKPTRSNMQRSKMRGASSGKKTAGPQQKNLEPALPGRWGGRSAENPPSGSVRKT
RKNKQKTPGNGDGGSTSEAPQPPRKKRARADPTVESEEAFKNRMEVKVKIPEELKPWLVEDWDLVTRQQLFQLP
AKKNVDAILEEYANCKKSQGNVDNKEYAVNEVVAGIKEYFNVMLGTQLLYKFERPQYAEILLAHPDAPMSQVYGA
PHLLRLFVRIGAMLAYTPLDEKSLALLLGYLHDFLKYLAKNSASLFTASDYKVASAEYHRKAL

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FIGURE 6248

TTGGTCTAAGACATGGGCTGACAACTTTTTCCATAAAGGGCCAGAAAGTAAATATTTTCAGGCTTTGTGGGATAT
CTATTTATGATTTATTTTACTCCTAGTATTATTTTCATCTTTTATACAGGTTATTAAGGTTAGTATTGCTGCATAA
CAAATTACTCCAAAATTTAATCATTATATTCAAGAAGAGTTCAGCTGCTAGGTTCTTATTTTGGGACTCTCATG
ATGCTGAGGTCAAGATGCCAGCTGGAGGCCAGGCGCCGAGCTCACGCCTGTAATCCCAGCGTTTTTGGGAGGCCA
GGGGCCTCCCAAATTCAAAAGGAAGAGACAAAGTCCACATCTGTCAATGCGAAGAATGGAAAGGTCACATATCAT
ATGTGGAGCGGGACATAACAACCTTCGGAATTAATCTCTTCCCCAGGTCAGTGTGCGGGCCTTCCACGCTGCCA
GCGGAACACTGGAATGGCGGAAGGGGAACGGGTACGGCAGGGGGAAAGGCTGGGGGTGGGGTCGGGTTCGAGTCGA
GGGAAGCTGGCCCGAGTGTGGACAGAGATGGCGGTCTGCGCGTCTGTTGTTCCAGCGCTCTGCGAAGCCTGAAA
AGGAGGAGCAACCTGTCCAGAATCCCCGAGGTCCGTGAAAGACAGGAAAAGGAGGGGAAATCTCGACATGGAAA
AACTCTACAGTGAAAATGAAGGAATGGCTTCAAACCAAGGAAAGATGGAAAATGAAGAACAGCCACAAGACGAGA
GAAAGCCAGAAGTAACCTGTACTCTGGAAGACAAGAAGTTAGAAAACGAGGGAAAGACAGAAAACAAGGGCAAAA
CAGGAGATGAGGAAATGTTAAAGGATAAAGGAAAGCCAGAGAGTGAGGGAGAGGCAAAAGAAGGAAAGTCAGAGA
GGGAGGGGAGATCAGAGATGGAGGGAGGATCAGAGAGAGAGGGAAAACCAGAGATAGAGGGAAAGCCAGAGAGTG
AAGGAGAGCCAGGGAGTGAAACAAGGGCTGCAGGAAAGCGCCAGCTGAGGATGATGTACCCAGGAAAGCCAAAA
GAAAACTAATAAGGGGCTGGCTCATTACCTCAAGGAGTATAAAGAGGGCCATACATGATATGAATTTAGCAATG
AGGACATGATAAGAGAATTTGACAATATGGCTAAGGTGCAGGATGAGAAGAGAAAAAGCAAACAGAAATTTGGGGG
CGTTTTTGTGGATGCAAAGAAATTTACAGGACCCCTTCTACCTTAGAGGTCCAAGGGAATTCAGGGGTGGCTGCA
GGGCCCCACGAAGGGACATTGAAGACATTCCTTATGTGTAGTGTCCCTGGCAGGCATTTACCAGGCCATGTGCTT
TAACGTTACGGTAATACTTTACTTTAGGCATCCCTCCTGTTGCTAGCAGCCTTTTGACCTATCTGCAATGCAGTG
TTCTCAGTAGGAAATGTTTCATCTGTTACATGGAAAAATGTTGATGGTGCATTGTAAAATTAACCAACAACCTT
GCAGAACCAAAAAAAA

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FIGURE 6249

MPAGGQAPQLTPVIPAFWEARGLPNSKGRDKVHICQCEEWKGHISYVERDITTSEIKSLPQVSVRAFHAASGTLE
WRKGNGYGRGKGWGWGRVESREAGPSVDRDGGGLRVCCSQRSAPKEKEEQPVQNPRRSVKDRKRRGNLDMKLYSE
NEGMASNQGMENEEQPQDERKPEVTCTLEDKKLENEGKTENKGKTGDEEMLKDKGKPESEGEAKEGKSEREGES
EMEGGSEREGKPEIEGKPESEGEPPGSETRAAGKRPAEDDVPRKAKRKTNKGLAHLKEYKEAIHDMNFSNEDMIR
EFDNMAKVQDEKRKSKQKLGAFLWMQRNLQDPFYPRGPREFRGGCRAPRRDIEDIPYV

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FIGURE 6250

GAAGTCCTGGTAATCTGGTCCTTGTTCCCGTCTGGATACCAGCTTCCTTCAGCAGCGCAGGCGGTGGTCCCTGAG
GCCCCGTGGAAGGAGTCAAACCTTGCGGGAATTTTGCAGTTTATCTGCAGGGCTGTTGTTTCCAGCAAGACCCAAAG
CTAGAAAAGGAGGAGGAAGAACTGACCCGATCAGTGCCAGAAGTCATTGTATTCAAAGAAGAATAAGCAAGAAA
GAAAAGAAGGAAGGAAGAGAGGTAGACAGATACAAGATGAAATCCTGTCAAAAATGGAAGGAAAACCAGAAAAT
GAGAGTGAACCAAAGCATGAGGAAGAGCCAAAGCCTGAGGAAAAGCCAGAAGAGGAGGAGAAGCTAGAGGAGGAG
GCCAAAGCAAAGGAACTTTTAGAGAAAGGCTGATTCAATCTCTCCAGGAGTTTAAAGAAGATATACACAACAGG
CATTTAAGCAATGAAGATATGTTTAGAGAAGTGGATGAAATAGATGAGATAAGGAGAGTCAGAAACAACTTATA
GTGATGCGTTGGAAGGTTAATCGAAACCATCCTTACCCCTATTTAATGTAGTTTACCTTGATTTTTATCTGATAT
TAACAATACCATATAGCTTGCTTTTTATTAGCATTTCTTGATATTCCTTTGTCCATATTTCTACTTATAACCTGT
TGCTATTAATGGTTTTAGATGTATCTCTTGTTATCTGCATCTCATTGTTTATTGTATTTGAACCAATCTACAAG
TCTCTGTCTTTTAATAAAAAGAACTTTACACATTTGTAAAAAAGAGGTTCTTGGAAGATATAAAATGGAAAAAGG
CTAAGTAATATGTGAATATCATATTTTGAAGGTAAAAAGTACATTTGTATATTACATATATGGACATAACTTG
TGAAGGATGAAAGAAAGTACAGCCTCTCGGTGGTGGGATTATGAATGATTTTTCTCCTTTTGCTTGTTTGTATTT
TCTATATTCCTAAAATTAACACACATTATTATTGCTAGAATAATAAAAGTTTTAT

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FIGURE 6251

CAGGATGACAGCTGGAGAAATGGAGTCAGTTTTATCCAAGTATGAAGATCAGATTACTATTTTCACTGACTACCTA
GAAGAATATCCAGATACAGATGAGCTGGTATGGATCTTAGGGAAGCAGCATCTCCTTAAAACAGAAAAATCTAAG
CTGTTGTCTGATATAAGTGCTCGTCTATGGTTTACATACAGAAGGAAATTTTACCAATTGGTGGAACGGGCCCT
TCATCAGATGCTGGTTGGGGATGTATGCTACGCTGTGGACAGATGATGCTGGCTCAAGCCCTTATCTGTAGACAC
TTGGGAAGGGACTGGAGCTGGGAGAAACAAAAAGAACAACCCAAAGAATACCAACGCATCCTACAGTGCTTCTTA
GATAGAAAAGATTGTTGCTACTCTATCCATCAAATGGCACAAATGGGTGTAGGAGAAGGGAAATCAATTGGAGAA
TGGTTTGGACCAAATACAGTTGCACAGGTGTTAAAAAACTTGCTTTATTTGACGAATGGAATTCCTTGGCTGTT
TATGTTTCAATGGATAACACAGTGGTCATTGAAGATATCAAAAAATGTGCCGTGTCCTTCCCTTGAGTGCTGAC
ACAGCTGGTGACAGGCCTCCCGATTCTTTAACTGCTTCAAACCAGAGTAAGGGCACCTCTGCCTACTGCACAGCC
TGGAACCCCTGCTGCTCATTGTGCCCCCTTCGCCTGGGCATAAACCAAATCAATCCTGTCTATGTTGATGCATT
AAAGAGTGTTTAAGATGCCACAGTCTTTAGGGGCATTAGGAGGAAAACCAAATAACGCGTATTATTTATAGGA
TTCTTAGGTGACGAGCTCATCTTCTTGGACCCTCATACAACCCAGACCTTTGTTGACACTGAAGAGAATGGAACG
GTTAATGACCAGACTTTCATTGCCTGCAGTCCCCACAGCGAATGAACATCCTAAACCTGGATCCTTCAGTTGCA
TTGGGATTTTCTGCAAAGAAGAAAAAGACTTTGATAACTGGTGTAGCCTTGTTTCAAGGAAATCTAAAGGAG
AATTTAAGGATGTTTGAATTAGTTTCAAGAACATCCATCACACTGGCCTCCCTTTGTACCTCCAGCCAAGCCAGAA
GTGACAACCACTGGGGCAGAATTCATTGACTCTACTGAGCAACTGGAGGAGTTTGATCTGGAGGAAGATTTTGAG
ATTCTGAGTGCTAGAAATCCTGGGAACCTCAACTGAAGGTCTG

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FIGURE 6252

MESVLSKYEDQITIFTDYLEEYPDDELVWILGKQHLLKTEKSKLLSDISARLWFTYRRKFSPIGGTGPSSDAGW
GCMLRCGQMMLAQALICRHLGRDWSWEKQKEQPKEYQRILQCFLDRKDCCYSIHQMAQMGVGEKSIGEWFGPNT
VAQVLKKLALFDEWNSLAVYVSMNTVVIEDIKKMCRLPLSADTAGDRPPDSLTAQNQSKGTSAYCTAWKPLLL
IVPLRLGINQINPVYVDAFKECFKMPQSLGALGGKPNNAYYFIGFLGDELIFLDPHTTQTFVDTEENGTVNDQTF
HCLQSPQRMNINLNDPSVALGFFCKEEKDFDNWCSLVQKEILKENLRMFELVQKHPSHWPPFVPPAKPEVTTTGA
EFIDSTEQLEEFDLLEDFEILSV

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FIGURE 6253

CTTTCCTCTCCCAACATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCAAACCAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACCTGGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCCTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAACCTACCCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCAGTGCGTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGACAGGGATGATCGTTCTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACA
GATACGGACTGGAGGGCTTGTCTGCTACAGACAGCTTTGATGACTAGAAGAGGTGATGATAGCTTTGGAGACAA
GTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGG
CGGGGACCGCTATGAAGACTGATATGACAGACGGGATGA

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FIGURE 6254

MAASAKKKKKGKTISLTDFLAEDGGTGGGSTYVSKPVSWADETDDLEGDVSTTWHSNDDDVYRAPPIDRSILPT
APRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEESIKEFFRGLNISAVRLPREPSNPERLKGFYAEFEDLDSL
LSALSLNEESLSNRRIRVDVADQALDKDRDDPPFGRDRNRDSDKTDTDWRARPATDTFDDYPPRRGDDSF GDKL

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FIGURE 6255

CTTCCCTCTCCCAACATGGCGGCCTCAGCAAAAAAGAAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCCTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAACCTACCCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCAAGTGCCTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGAGTATCGGGATCGTTATGATTCAGACCGGTATCGGGATGGGTATCGGGATGGC
CCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGCTATGATGACCAAGGCAGCAGAGACTATGATAGAGGC
TATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGGC
GGGGACCGCTATGAAGACTGATATGACAGACGGGATGATCGGTGCTGGAGCTCCAGAGATGATTACTCTCGGGAT
GATTATAGGTGTGATGATAGACGTCCCCCCCCAAAGACCCAACTGAATCTAAAGCCTTGGAGTACTCTTAAGCAA
GATGATTCTCTGCTAGTACCTCCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTTG

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FIGURE 6256

ATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTTCTGGCTGAGGATGGG
GGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGATGACCTGGAAGGAGATG
TTTCGACAACTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGTTCCATCCTTCCCCTG
CTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCCTACACTGCTTTTCTAG
GAAACCTACCCATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTTCGAGGATTAAATATCAGTGCAGTGCCTT
TACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAGGACCTGGATTCCCTGC
TCAGTGGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTTGCTGATCAAGCACAGG
ATAAAGACAGGGATGATCGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACGGACTGGAGGG
CTTGTCCTGCTACAGACAGCTTTGATGACTAGAAGAGGTGATGATAGCTTTGGAGACAAGTATCGGGATCGTTAT
GATTACAGACCGGTATCGGGATGGGTATCGGGATGGCCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGC
TATGATGACCAAGGCAGCAGAGACTATGATAGAGGCTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGC
AGCGGGTATCGCAGGGATGATGACTACAGAGGAGGCGGGGACCGCTATGAAGACTGATATGACAGACGGGATGAT
CGGTCTGGAGCTCCAGAGATGATTACTCTCGGGATGATTATAGGTGTGATGATAGACGTCCCCCCCCAAAGACCC
AAACTGAATCTAAAGCCTTGGAGTACTCTTAAGCAAGATGATTCTCTGCTAGTACCTCCAGTCCACTCGAGCT
GCTTCTATCTTTGGAGGGGCAAAGCCTGTTGACACAGCTGCTAGAGAAAGAGAAGTAGAAGAACGGCTACAGAAG
GAACAAGAGAAGTTGCAGCGTCAGCTGAGTGAGCCAAAACCTAGAACGACGGCCTCGGGAGAGACACCCAAGCTGG
CGAAGTGAAGAACTCAGGAACGGGAACGGTCAAGGACAGGAAGTGAGTCATCGCAGACTGGGACCTCCACCACA
TCTGGCAGAAATGCACGAAGGAGAGAGAGTAAGAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGC
CACTCTCCAACCTTCTAAACCTCCCAAACCTGATCAGCCCCTAAAGGTAATGCCAGCCCCTCCACCAAAGGAGAAT
GCTTGGGTGAAGCGAAGTTCTAACCCTCCTGCTCGATCTCAGAGCTCAGACGCAGAGCAGCAATCCCCTACAAGT
GGTGGGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGCAAGGCAAGATGAAAAATAAGTAGATGGG
ATGAATGTCCCAAAGGCCAAACTGGGAACCTAGCCGTGGTCCAGGAGACGGAGGGAACAAAGACCACTGGAAG
GAGTCAGATAGGAAAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAAT
CCAGCTTCCAAGTTCAGTTCTGCAAGCAACTATGCTGCTCTCTCTTGATGGTGAAGATGAAAATGAGGGAGAAGA
TTATGCCGAATAG

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FIGURE 6257

AAAGTTGCTAGCTGGGGGCAGAGACGGCCACGCGGTTGCAGGAGTAAGAGATCCCTCTGTGGCGAATTGGCCAAC
GGCTCCTTTCAACCCCTGCCTCGTTGGTGGCCACTGGAGAAGCGCGGGGGGCTCCCCCAGACAGCCGTGGGGACAA
GTTAGAGCCAGCACTTTACCCCGGGCCTTGCGTGTAGCTTCCCCTCCCCTACTCTCGGTGCCCTGGTGTCTGGAG
GGGGGTTGTGGGGGTGTGCCCCGCTTACATGGTCCACCACCCGGGCAACCCTCTGGGCTTGTGTTCCATCTCACT
CTTGCTTCTGTACTGTGGTCAAGGGGAACCACTGCATCAATGTCGCCGTATAGCTACCAGAGTCTCCTGGACTGG
CTCTATGGGGGCGTGGACCCCACTTTTGCAGGCAATGGGGGCCCCGACTGTGCTGCCCTCCTCTCTTGGCAGCAG
CGGCTGCTGGAAAGTGTGGTGGTCTGACCCTGGCTCTGTTGGAGATCCTGGTGGCCCTGCGGCACATCCTGAGG
CAGACGAAGGAGGACGGTAGGGGTAGCCCTGGCAGCCAGCCAGAGCAGGTGACCCAGCGGCCAGAGGAAGGCAAG
GAGAGCCTGAGCAAGAATCTGCTCTTAGTAGCCCTGTGCCTGACCTTCGGGGTGGAGGTGGGCTTTAAGTTCGCC
ACCAAGACCGTCATCTACCTGCTCAACCCCTGTACCTGGTCACCATGATGCATCTCCCCTTGAATTGGAGATT
TACTACATTACAGCATGTTATGCTCTACGTGGTACCCATCTACCTGCTTTGGAAAGGAGGTGCTTACACTCCAGAG
CCCCCTCAGCAGTTTCCGGTGGGCTCTTCTCTCAACTGGCCTCATGTTCTTTTATCACTTCAGCGTCTTGCAGATC
CTCGGCCTGGTCACCGAAGTGAATTTGAACAACATGCTGTGTCCGGCCATCTCAGACCCATTCTACGGCCCCCTGG
TATCGCATCTGGGCCTCGGGACACCAGACTCTCATGACCATGACCCACGGGAAGCTGGTCATCCTGTTCTCATAC
ATGGCTGGGCCCCCTGTGTAAATATCTGCTGGATTGCTCCGGCTTCCAGCCAAGAAAAATAGACTGAAGGTGCTTA
TTTTTTTTTTTTTCCCTCCCTGAGGAAGCAAGTCGTGACTTGACTTGGAGAACACCCAGTTCTTGATAAAATCATG
GGAGAGGGCAGTAGGATGTTTGGTGTATTTCTTTTCTCCTTTCTGTCCCTTTCTTCTACCACTCTTCCCTTTCC
CAGCTCTTCCCCCTACGATGTCTCCTTGAGCCTGGGGTGTAGTGTGGGCGCTGGATTTTCTCCTTCCCTTTGG
CTCTCTCCTCAAACCTCATCGCATTCTAGAAAGCTGCTTGCAGGGTCGCCGGGCTAACCAGGGTGATCGGCGAAC
TTTACCGTACAGTACCTCAGTCTAGCTGTCTAGATCACCCTTTTGTCTGAGCCTCTGTTGAGGTTTTTATATTTG
TGATCATTGGTAATTCAGTGTCTATGAAGTGGGCACAGCTCCCCACAGAGAGCAAGTTGTCTAGCAGGTCTCTGT
GCACTGGTATTGGGGCAGGGCAGTGCCCTGGGGGTAAGCTAGGTGGCTCAGGGAGTGGCAGAAGGGCCATTTTTC
CCTCTGCCAAAAAGACTTCCCTGGATTTGTAGATGTTGACCCAGAGTCTCTGTCCCCCTCCTGAAGAGGATTTTC
TTACTGGTTTTCTACTGAAGGGGAGGTAGGGGAGGAGGAAAAAGGACCATGTGTGATGCTGTTAGACAAGACACT
GACGCTGATTATGGAGGGTCTCCTGCAGGCCCTTGTGGGCTCCTTGGCAAGGCCCCAGGCTGGGAAGGAGCTCCC
CCCACTGCCCATCCTGCCCGCTTTGTGGCGGGTAGAGTCAGTGACAGGGAGGCAGCCCTCCTTTTGTGTATATAG
AGTGAGCTGATTTGGGCTCAGGAAAACCTAGTCGCTTGTGCTCTCGTCTGTGACATTTTGTACACTGGTTTGC
TACTCATGGCAAGAAACAGACAAAGCCCCATGAAAAATAAAACAAAACAAAAGTCATTTCAAACAAAGCTGTTGT
TTTGAAAACCTCTGCTTTCTTTTGGTGTCCATTTTGTGTTCTATTTTAAAGAATCTTTCAATTTATATTGGTGTTA
TTGTAGTGAAGAGAATGTGATAGGCTGATCTGTAATGGTTTCTGTGAGGAGCTTAGCAAATGCCTCTGCCCCCTCT
TCCCCTACCCCTGTCTTCTCCTCAGTTCCCAGCTGGGATTGCTATGCACTGGGCAGACCCGTCAGTGTCTCCCCTG
AACCCCCACACAGTGGCTTCCCTTAGAACCAGTCTTTGTACTCTCCCTAAACAGCAGCAGGCTTAGGATTTTTGT
CAGGCTGGTTCTTGCCTGCTCTGTGCCCCCACCAGTTTGTCTACCTCTTGGGGCATTTTGTAAATGTGTTTCTCT
GTCTTGTAACACCTTTTGATTGTACCGAAATGGTATCTGCAGTCGCCTTTGGAAATAAATGGTCATTAATTTGTG
TACTTAGCATTCTGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6258

MSRYSYQSLLDWLYGGVDPFSFAGNGGPDCAAFLSWQORLLESVVVLTLLALLEILVALRHILRQTKEDGRGSPGSQ
PEQVTQRPEEGKESLSKNLLLVALCLTFGVEVGFKFATKTVIYLLNPCHLVTMMHLPFELEIYYIQHVMLYVVP
YLLWKGGAYTPEPLSSFRWALLSTGLMFFYHFSVLQILGLVTEVNLNNMLCPAISDPFYGPWYRIWASGHQTLMT
MTHGKLVILFSYMAGPLCKYLLDLLRLPAKKID

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FIGURE 6259

ATGCTGTATGAATTCCAAACTGTTGCTTCACACCCAATGTCAGGATACTCAACCATGATTGGAATCAATAAACTA
CAGGACTTCTTGCCACGTGCGCCTTCAAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGG
CTGAGAGGCGGCGGGAGAGATGCCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCACGAGTAAC
ACCGCCCCACGGGACCGCTCTCGAGGTCCCCCAAGCCAAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCT
TCCTGTCCGGGAACGGCCCGGCGTCTGGCTGTCCAGCTAGTCCTGGCGCCTCTCTCTGGGGCTTCCACCGCCCC
ACCCCGCGGCGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATCCGTCCGAGCACCTGCCCTAGTCCTGCC
TGGTCCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGCGAAGGCACCGGCAAGGGGCTGGGGGAA
GAGCCACGCCAGCCTACGTACGCAGGAAGGGAGCCAGTGGCCACCCCAAACACACCTCTCCTCCTCACACCTG
GCCTACGTCCAACCTCTCCACGGCTCTACCCAGAAGGCTGCACGACTTCTTGCCACGTGCGCCTTCAAAACGGTA
AGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGCGGGAGAGATGCCCCATGAACTCAAG
TACCCGGACACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCACGGGACCGCTCTCGAGGTCCCCCAAG
CCAAGGCAGAGTCCGACGGGTCTTCTTCTGGGTGCCCCGGCTTCCCGGACTCCAGCAGGCCTGGGAAGGCCC
CGGGCCCCCTTAGCCGATGCCAGAGAGTCTCATTCTCAAGCTTGCCACCGAACTCATCGGTCCGACGCAAG
GAGGAACGCCCCGGCGCCGGCCAGCAGCGGCGGGCACCGGCGCCAATGGCCACGGAACCTCAGCACTGGCAGTCGG
CCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGAGCCGTACCC
CGGTGCTCCCACGGGAAGGGGCACCAGGCAAACCTGCCAAGGCCCGAGCCCAGGCTCCCTGGCGGAGGCCTCC
GCTGGTCCCGCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCTTCTGTCCGGGAACGGCCCGGCGTCC
TGGCTGTCCAGCTAG

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FIGURE 6260

MPMNSSTRTRPPLLPPRVTPPPRDRSRGPPSQGRKEERPGAGQORRAPAPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHPGCSHGKGHQANCPRPRAQAPWRRPPLAPEPWLPVRERPGVLAVQLVLAPLSGASTARPRGGACFS
RTSRDLGSVRAPALVLPGPPGQSQATPPQASTAKAPARGWGKSPRQPTSRRKASGHPKHTSPPHTWPTSNPRL
YPEGCTTSCPRAPSKR

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FIGURE 6261

ATGCCCCGCGGCCAACTTTCTTCCTTGGACCCACAAGGAGGAACGACCCGGGTGCCGGCAAGAAGCCGCCGGGAA
GCCCGCGCCATTGGCACACGGAATCTCGGCAATTGCCAATTCCGGCCTACTTACAAACCGCAAGGCTTGCCATTTT
GGCCCAACGGAACCTTCCCGGCCCAAGAAGCCAGCTTGGCCCTTAACCCCGTTTGCTTCCACGGGAAGGGGCAA
CCAAGCAAAATGCCCAAGGCCCCGAGCCAGGGGTCCCTGCCGAAGGCCTCCGCTGGTCCCGCCAGATCATGG
GCGCCACCAGGCTCCCGAGCCGTGGCTTCCTGTCCGGGAACGGCCCCGGCGTCCCTGGCTGTCCAGCTAGTCCTGGC
GCCTCTCTCTGGGGCTTCCACCGCCGACCCCGCGGCGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATG
CGTCCGAGCACCTGCCCTAGTCCTGCCTGGTCCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGC
GAAGGCACCGGCAAGGGGCTGGGGGAAGAGCCACGCCAGCCTACGTACGCAGGAAGGGAGCCAGTGGCCACCC
CAAACACACCTCTCCTCCTCACACCTGGCCTACGTCCAACCTCTCCACGGCTCTGCCCAGAAGGCTGCACGACTTC
TTGCCCACGTGCGCCTTCAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGAGATAGGCTGAGAGGC
GGCGGGAGAGATGCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCC
ACGGGACCGCTCTCGAGGTCCCCAAGCCAAGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCCCCGGA
AGGCCCCCAGGCAGAAATGAGCACCACGGGGAACGGCCCGCCTCCAAGACAACCTCGGGGACATGGACACAACAA
GACAGGGTGGCAAGTCTCAACAAGGCGGTGCGCGGCGTCTGAAGGCGTGAGTGTGGCCGACGGAGCCTCCCGG
GCCGAGGACCCAGCTAGGCCGTACCCCGGTTGCTCCACGGGAAGGGGCACCAGGCAACTGCCCAAGGCCCCG
AGCCCAGGCTCCCTGGCGGAGGCCTCCGCTGGTCCCGCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGC
TTCTGTCCGGGAACGGCCCGGCGTCTGGCTGTCCAGCTAG

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FIGURE 6262

MPRGQLSSLDPQGGTTRVPARSRREARAIGTRNLGNCQFGLLTNRKACHFGPTEPSRPKNPAWPLTPVCFHGKGQ
PSKMPKAPEPRGFCRRPPLVPPRSWAPPGSRAVASCPGTARRPGCPASPGASLWGFHRPTPRRSLLLSDLQRPRM
RPSTCPSPAWSPTVPSHSSPGEHSEGTGKGLGEEPTPAYVTQEGSQWPPQTHLSSSHLAYVQLSTALPRRLHDF
LPTCAFKTVRAATERVRHGADRLRGGGRDAHELKYPDTPSTSTTTSTNTAPTGPLSRSPKPRARACAPPKTSQVPG
RPPGRNEHHGERPASKTTSGTWTQQDRVASLNKAGARRLKACSVADGASRAEDPARPSRLLLPREGAPGKLPKAP
SPGSLAEASAGPAQIMAATRLPSRGFLSGNGPASWLSS

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FIGURE 6263

CCCTCACCTCCCAGGAATGGGGAGGGGGCATCCTACCCCATATCTGAGGTGCGACTGCGGGACGTAGAGCGGACT
GGGCCTTTCCCGTTGGCGCGTGGCCTCAATCAGGACTTCTTGCCACGTGCGCCTTCAAAACGGTAAGAGCTGCA
ACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGCGGGAGAGATGCCCATGAACTCAAGTACCCGGAC
ACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCACGGGACCGCTCTCGAGGTCCCCAAGCCAAGGACG
CAAGGAGGAACGCCCCGGCGCGCGGCCAGCAGCGGCGGGCACCGGCCCAATGGCCACGGAACCTCAGCACTGGCAG
TCGGCCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGGCCGTCA
CCCCGGTTGCTCCACGGGAAGGGGCACCAGGCCAACTGCCCAAGGCCCGAGCCAGGCTCCCTGGCGGAGGCC
TCCGCTGGACTTCTTGCCACGTGCGCCTTCAAAACGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCC
CCGGAAGGCCCCCAGGCAGAAATGAGCACCACGGGGAACGGCCCGCCTCCAAGACAACCTCGGGGACATGGACAC
AACAGACAGGGTGGCAAGTCTCAACAAGGCGGGCTGGCGTGGGCTCTTCCCCAGCCCCTTGCCGGTGCTGCCA
CGTGAGAAGGGCCCGGTGCCGTCCCGCTATTCCGGAATTGTGGGTTCACCTGAAGTTTGAGGCCAAACCCCCA
GCGGTCAGTGGGACGCCAGTCGCCTTTGACCTCTTGGTCAAGCTGGCCTTGCCGTGA

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FIGURE 6264

MPMNSSTRTRPPLLPPRVTPPPRDRSRGPPSQGRKEERPGARPAAGTGPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHPGCSHGKGHQANCPRPRAQAPWRRPPLDFLPTCAFKTGKGLRTPKDKRGPRKAPRQK

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FIGURE 6265

AGGGAGCGCACGACGTGCGCGCACCCCTCTGCCCTGGTCCATCGCTGCCGCCCTCCTTCTTCTGCAGCTCCTGGTGC
TGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCC
ATGGCCGACGAAAAACCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGCAG
GATGGTTCTGTGGTGAGTTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGA
CAGGGATTGTCAGTGAGGCAGATCAGATTCCGATTGACGGGCAACCAATCAATGAAACAGACACACCTGCACAG
TTGGAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTG
CTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTCAATTTGGTTCCAC
CACATCCTGACTACTACCGTATAGTTTTCTCTATTCTTTTCAATTTCCCCCTTCCCTATTCTTTATTGTACATAAA
GTAAGTGGTATATGTACACAAGCATATTGCATTTTTTTTTAACTAAACAGCCAATGATATGTTTTGATTGACATCA
AGTGGAGATGGGATGGGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGCATGCTCATTAG
CTCTTATCTTTATATTCCAGTAAGTTATTTTGCTCTCACTGTTTTAACAAAAACAACAACAACAACATAAAA
ATCCTTGCAATACCTTTTTCAATTGGAGAATTTTAATGATTTTCATTTATCATTGTAAAACCAAGGACAATTTTAT
AACTTTTTCGTACATAGCTGCTACATGTAGGGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAAAACAAAAA
GAATCCTAGATACTTTTCCCTTCAAGTCAAGCGTCTTGTTTAAATAAACTGCTTGTTTAAATG

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FIGURE 6266

MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSVRQIRFRFDGQPINETDTPAQ
LEMEDEDITIDVFQQQTGGVY

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FIGURE 6267

GCGCACCCCTCTGCCCTGGTCCATCGCTGCCGCCCTCCTTCTTCTGCAGCTCCTGGTGCTGCTTGTGTGCTCGTTTG
GTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCCATGGCCGACGAAAAACCC
AAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCAG
TTTAAGATTAAGAGGCATACACCACTTAGTAAACTAATGAAAGCCTATTGTGAACGACAGTGGAATGGAGGATG
AAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTTACTCCAGAA
CTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACCTGCAATTTGGTTCCACCACATCCTGACTACTA
CCGTATAGTTTTCTCTATTCTTTCATTTCCCCCTTCCCTATTCTTTATTGTACATA

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FIGURE 6268

CACAACAAACAGGCCACTGAGAATACAAAGGAGGAAGTGAAAACATATGTGAGAAGATGGCCCAGTCTGATGCTAA
AAAGTTTGTGGAAAGCCAGCCTAAAAAGGACACACCACGGAAAGAGAAGCGTTCACGGGAAGAGAAGCAGAAGCC
CCAGGCTGAGCAGGAGGAGAAAAAGGCGGCTGCCCCTACTCCTGAGGAGGAGATGGATGAATGTGAGCAGGCGCT
GGCCGCTGAGCCCAAGGCCAAGGACCCCTTTGCTCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTGAAGCT
CAAGTACTCCAATGAGACACACTCTCTGTGGCACTGCCATATTTCTGGGAGCACTTTGATAAGGACTGCTGGTCC
CTGTGGTACTCAGAGTGTCGCTTCCCTGAAGAATTCATCAGACCTTCATGAGCTGCAATCTCACTGGAATG
TTCCAGTGACTGGACAAGCTGAGGAAGAATGCCTTCGCCAGTGTCATCCTCTTTGGAACCAACAATATCAGCTCC
ATTTCTGGAGTCTGGGTCTTCCGAGGCCAGGAGCTTGCCCTTCCACTGAGTCCAGATTGGCAGGTGGGCTATGAG
TCATACACATGGCAGAACTGGATCCTGGCAGCGAGGAGACCCAGATGCTGGTTCGAGAGTACTTTTCCTGGGAG
GG

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FIGURE 6269

ATCTTTAAATGGATGAGATGGCTACCACTCAGATTTCCAAAGATGAGCTTGATGAACTCAAAGAGGCCTTTGCAA
AAGTTGATCTCAACAGCAACGGATTCAATTTGTGACTATGAACTTCATGAGCTCTTCAAGGAAGCTAATATGCCAT
TACCAGGATATAAAGTGAGAGAAATTATTTCAGAACTCATGCTGGATGGTGACAGGAATAAAGATGGGAAAATAA
GTTTTGACGAATTTGTTTATATTTTTCAAGAGGTAAAAAGTAGTGATATTGCCAAGACCTTCCGCAAAGCAATCA
ACAGGAAAGAAGGTATTTGTGCTCTGGGTGGAACCTTCAGAGTTGTCCAGCGAAGGAACACAGCATTCTTACTCAG
AGGAAGAAAAATATGCTTTTGTAACTGGATAAAACAAAGCTTTGGAAAATGATCCTGATTGTAGACATGTTATAC
CAATGAACCCTAACACCGATGACCTGTTCAAAGCTGTTGGTGATGGAATTGTGCTTTGTAAAATGATTAACCTTT
CAGTTCCTGATACCATTGATGAAAGAGCAATCAACAAGAAGAACTTACACCCTTCATCATTGAGGAAAACCTTGA
ACTTGGCACTGAACTCTGCTTCTGCCATTGGGTGTCTGTTGTGAACATTGGTGCAGAAGATTTGAGGGCTGGGA
AACCTCATCTGGTTTTGGGACTGCTTTGGCAGATCATTAAAGATCGGTTTTGTTGCTGACATTGAATTAAGCAGGA
ATGAAGCCTTGGCTGCTTTACTCCGAGATGGTGAGACTTTGGAGGAACCTTATGAAATTGTCTCCAGAAGAGCTTC
TGCTTAGATGGGCAAACCTTTCAATTTGGAAAACCTCGGGCTGGCAAAAATTAACAACCTTAGTGCTGACATCAAGG
ATTCCAAAGCCTATTTCCATCTTCTCAATCAAATCGCACCAAAAGGACAAAAGGAAGGTGAACACCGGATAGATA
TTAACATGTCAGGTTTCAATGAAACAGATGATTTGAAGAGAGCTGAGAGTATGCTTCAACAAGCAGATAAATTAG
GTTGCAGACAGTTTGTACCCTGCTGATGTTGTGCTAGTGGAACCCCAACTCAACTTAGCTTTCTGTTGGCTAACC
TGTTTAATAAATACCCGACACTAAGCCAGAGAACCAGGATATTGACTGGACTCTATTAGAAGGAGAAACTC
GTGAAGAAAGAACCTTCCGTAACCTGATGAACCTCTTGGTGTCAATCCTCACGTAAACCATCTCTATGCTGACC
TGCAAGATGCCCTGGTAATCTTACAGTTATATGAACGAATTAAGTTCCCTGTTGACTGGAGTAAGGTTAATAAAC
CTCCATACCCGAAACTGGGAGCCAACATGAAAAAGCTAGAAAACCTGCAACTATGCTGTTGAATTAGGGAAGCATC
CTGCTAAATTCTCCCTGGTTGGCATTGGAGGGCAAGACCTGAATGATGGGAACCAACCCCTGACTTTAGCTTTAG
TCTGGCAGCTGATGAGAAGATATACCTCAATGTCTTGGAAAGATCTTGGAGATGGTCAGAAAGCCAATGACGACA
TCATTGTGAACTGGGTGAACAGAACGTTGAGTGAAGCTGGAAAATCAACTTCCATTGAGATTTTAAGGACAAGA
CGATCAGCTCCAGTTTGGCAGTTGTGGATTTAATTGATGCCATCCAGCCAGGCTGTATAAACTATGACCTTGTGA
AGAGTGGCAATCTAACAGAAGATGACAAGCACAATAATGCCAAGTATGCAGTGTCAATGGCTAGAAGAATCGGAG
CCAGAGTGTATGCTCTCCCTGAAGACCTTGTGGAAGTAAAGCCCAAGATGGTCATGACTGTGTTTGCATGTTTGA
TGGGCAGGGGAATGAAGAGAGTGTAAAATAACCAATCTGAATAAAACAGCCATGCTCCCAGGTGCATGATTTCGA
GGTCAGCTATTTCCAGGTGAAGTGCTTATGGCTTAAGGAACCTTGGCCATTCAAAGGACTTTTCATTTTGATTA
ACAGGACTAGCTTATCATGAGAGCCCTCAGGGGAAAGGGTTTAAGAAAAACAACCTCCTCTTTCCCATAGTCAGAG
TTGAATTTGTGAGGCACGCCTGAAATGTGCTCATAGCCAAAACATTTTACTCTCTCCTCCTAGAAATGCTGCCCTT
GACATTTCCCATGCTGTATGTTATTTCTTGCTCTGTTATCTTTTGCCCTCTTAGAATGTCCCTCTCTTGGGACT
TGCTTAGATGATGGGATATGAATATTATTAGACAGTAATTTTGCTTTCCATCCAGTATGCTAGTTCTTATTTCGAG
AACTATGGTCAGAGCGTATTTGGATATGAGTATCCTTTGCTTATCTTTGTAGTACTGAAAATTTGCCGAAGTAAC
TGGCTGTGCAGAATGTAATAGAAGCTTTTCTTATTCTTTTATTCTTAAGATCAGTATCTTTTTACAGTATTCTTT
CTACATGATCCTTTTTTGTACATTTAAGAATATTTTGATTATATTAACAAGACTGCTGATTTTGCTACTTTTTT
TAAGGGGTCTTCAAGTAAGTAAACATACATCGTAGCTAGAAAGAAAATGTACCTTAAATTTGCATCTTCCCTCT
CATACCCAAGCTGTAAACAATTGAAATATTTTGTCTTAAATCACTTGGTTCAATACATGCTTATTTGTTTTAAAA
CCTGTATCATCAAACCTCTCTCTAAATTTAAAAATGCTGTTGAATATGATACTTTTGAGGAGAGAGTGTGCTCAG
AACTTAGACGGGATTTGGTAGGCAAGTATGCTAAGTGTACAATATATTTTTTAATTTTACACCTGAAACAAAGA
AATGTGGTCACTAAAAATAAAAGTATATATGTAGGAATTAATGTACTCTTGCTTTGTCAAGCTGTTTGCTATAGT
TTCCAAGGTATTATGTTACTCTAACTCTGAAAAGTGATGTAATCTGGTAGCAATGTAGTAGTTCAAATAAAGGCA
TTTACATAAT

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FIGURE 6270A

TGCCAAGGCTCCAGCCCGGCCGGGCTCCGAGGCGAGAGGCTGCATGGAGTGGCCGGCGCGGCTCTGCGGGCTGTG
GGCGCTGCTGCTCTGCGCCGGCGGGGGGCGGGGGCGGGGGCGCCGCGCCTACGGAACCTCAGCCACCTGTGAC
AAATTTGAGTGTCTCTGTTGAAAACCTCTGCACAGTAATATGGACATGGAATCCACCCGAGGGAGCCAGCTCAAA
TTGTAGTCTATGGTATTTTAGTCATTTTGGCGACAAACAAGATAAGAAAATAGCTCCGGAACCTCGTCGTTCAAT
AGAAGTACCCCTGAATGAGAGGATTTGTCTGCAAGTGGGGTCCCAGTGTAGCACCAATGAGAGTGAGAAGCCTAG
CATTTTGGTTGAAAAATGCATCTCACCCCCAGAAGGTGATCCTGAGTCTGCTGTGACTGAGCTTCAATGCATTTG
GCACAACCTGAGCTACATGAAGTGTCTTGGCTCCCTGGAAGGAATACCAGTCCCAGACCTAATATACCTCTCTA
CTATTGGCACAGAAAGCCTGGAAAAAATTCATCAATGTGAAAACATCTTTAGAGAAGGCCAATACTTTGGTTGTTT
CTTTGATCTGACCAAAGTGAAGGATTCCAGTTTTGAACAACACAGTGTCCAAATAATGGTCAAGGATAATGCAGG
AAAAATTAAACCATCCTTCAATATAGTGCCTTTAACTTCCCCTGTGAAACCTGATCCTCCACATATTAAAAACCT
CTCCTTCCACAATGATGACCTATATGTGCAATGGGAGAATCCACAGAATTTTATTAGCAGATGCCTATTTTATGA
AGTAGAAGTCAATAACAGCCAAACTGAGACACATAATGTTTTCTACGTCCAAGAGGCTAAATGTGAGAATCCAGA
ATTTGAGAGAAATGTGGAGAATACATCTTGTTCATGGTCCCTGGTGTCTTCTCTGATACTTTGAACACAGTCAG
AATAAGACTCAAAACAAATAAGTTATGCTATGAGGATGACAAACTCTGGAGTAATTGGAGCCAGAAATGAGTAT
AGGTAAGAAGCGCAATTCCACACTCTACATAACCATGTTACTCATTGTTCCAGTCATCGTCGAGGTGCAATCAT
AGTACTCCTGCTTTACCTAAAAAGGCTCAAGATTATTATATTTCCCTCCAATTCCTGATCCTGGCAAGATTTTTAA
AGAAATGTTTGGAGACCAGAATGATGATACTCTGCACTGGAAGAAGTACGACATCTATGAGAAGCAACCAAGGA
GGAAACCGACTCTGTAGTGCTGATAGAAAACCTGAAGAAAGCCTCTCAGTGGATGGAGATAATTTATTTTACCTT
CACTGTGACCTTGAGAAGATTCTTCCCATTCTCCATTTGTTATCTGGGAACCTATTAAATGGAACTGAAACTAC
TGCACCATTTAAAAACAGGCAGCTCATAAGAGCCACAGGTCTTTATGTTGAGTCGCGCACCGAAAACTAAAAAT
AATGGGCGCTTTGGAGAAGAGTGTGGAGTCATTCTCATTGAATTATAAAAGCCAGCAGGCTTCAAACCTAGGGGAC
AAAGCAAAAAGTGATGATAGTGGTGGAGTTAATCTTATCAAGAGTTGTGACAACCTCCTGAGGGATCTATACTTG
CTTTGTGTTCTTTGTGTCAACATGAACAAATTTTATTGTAGGGGAACCTCATTGGGGTGCAATGCTAATGTCA
AACTTGAGTCACAAAGAACATGTAGAAAACAAAATGGATAAACTCTGATATGATTGTTTGGGATCCTATTGAAC
CATGTTTGTGGCTATTAAAACTCTTTTAAACAGTCTGGGCTGGGTCCGGTGGCTCACGCCTGTAATCCCAGCAATT
TGGGAGTCCGAGGCGGGCGGATCACTCGAGGTCCAGAGTTCAGACCAGCCTGACCAAAATGGTGAAACCTCCTC
TCTACTAAAACCTACAAAAATTAACCTGGGTGTGGTGGCGCTGCCCTGTAATCCCAGCTACTCGGGAAGCTGAGGCA
GGTGAATTGTTTGAACCTGGGAGGTGGAGGTGCACTGAGCAGAGATCACACCACTGCCTCTAGCCTGGGTGAC
AGAGCAAGACTCTGTCTAAAAAACAAAACAAAACAAAACAAAACAAAACCTCTTAATATTCTGGAGTCATCA
TTCCCTTCGACAGCATTTTCTCTGCTTTGAAAGCCCCAGAAATCAGTGTGGCCATGACATGACAGACTACAGAAAA
ACCAGAGGCAGCTTCTTTGCCAAGACCTTTCAAAGCCATTTTAGGCTGTTAGGGGCAGTGGAGGTAGAATGACTC
CTTGGGTATTAGAGTTTCAACCATGAAGTCTCTAACAATGTATTTTCTTACCTCTGCTACTCAAGTAGCATTTA
CTGTGCTTTTGGTTTGTGCTAGGCCCCCGGGTGTGAAGCACAGACCCCTTCCAGGGGTTTACAGTCTATTGTAGA
CTCCTCAGTCTTGCCACTTTTTTTTTTAACTCTCCACCAGTCATTTTTCAGACCTTTTAACTCCTCAATTCCAAC
ACTGATTTCCCCTTTTGCATTCTCCCTCCTTCCCTTCTTGTAGCCTTTTGAATTTTCAATGGAAATTAGGATGTA
AATCTGCTCAGGAGACCTGGAGGAGCAGAGGATAATTAGCATCTCAGGTAAAGTGTGAGTAATCTGAGAAACAAT
GACTAATTCTTGCAATTTTGTAACTTCCATGTGAGGGTTTTTCAGCATTGATATTTGTGCATTTTCTAAACAGAG
ATGAGGTGGTATCTTCACGTAGAACATTGGTATTCGCTTGAGAAAAAAGAATAGTTGAACCTATTTCTTTCT
TTACAAGATGGGTCCAGGATTCCTCTTTCTCTGCCATAAATGATTAATTAATAGCTTTTGTGCTTACATTGG
TAGCCAGCCAGCCAAGGCTCTGTTTATGCTTTTGGGGGGCATATATTGGGTTCCATTCTCACCTATCCACACAAC
ATATCCGTATATATCCCCTCTACTCTTACTTCCCCCAAATTTAAAGAAGTATGGGAAATGAGAGGCATTTCCCCC
ACCCCATTTCTCTCTCACACACAGACTCATATTACTGGTAGGAACCTTGAGAACTTTATTTCCAAGTTGTTCAAA
CATTTACCAATCATATTAATACAATGATGCTATTTGCAATTCCTGCTCCTAGGGGAGGGGAGATAAGAAACCCCTC
ACTCTCTACAGTTTGGGTACAAGTGGAACCTGCTTCCATGGCCGTGTAGAAGCATGGTGCCCTGGCTTCTCTG
AGGAAGCTGGGGTTCATGACAATGGCAGATGTAAAGTTATTCTTGAAGTCAGATTGAGGCTGGGAGACAGCCGTA
GTAGATGTTCTACTTTGTTCTGCTGTCTCTAGAAAGAATATTTGGTTTTCTGTATAGGAATGAGATTAATTCC
TTTCCAGGTATTTATAATTCTGGGAAGCAAAACCCATGCCTCCCCCTAGCCATTTTACTGTTATCCTATTTAG
ATGGCCATGAAGAGGATGCTGTGAAATTCCTCAACAAACATTGATGCTGACAGTCATGCAGTCTGGGAGTGGGGAA

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FIGURE 6270B

GTGATCTTTTGTTCCTCCTCTTTTAGCAGTAAAATAGCTGAGGGAAAAGGGAGGGAAAAGGAAGTTATGG
GAATACCTGTGGTGGTTGTGATCCCTAGGTCTTGGGAGCTCTTGGAGGTGTCTGTATCAGTGGATTTCCCATCCC
CTGTGGGAAATTAGTAGGCTCATTACTGTTTTAGGTCTAGCCTATGTGGATTTTTCTTAACATACCTAAGCAA
ACCCAGTGTGAGGATGGTAATTCTTATTCTTTCGTTCAAGTTTTCCTTCATCTGGGCACTGAAGGGATA
TGTGAAACAATGTTAACATTTTGGTAGTCTTCAACCAGGGATTGTTTCTGTTTAACTTCTTATAGGAAAGCTTG
AGTAAATAAATATTGTCTTTTGTATGTCAAGCGGGCCGCCACCGCGGTGGAAACTCCAGCTT

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FIGURE 6271

MEWPARLCGLWALLLCAGGGGGGGAAPTETQPPVTNLSVSVENLCTVIWTWNPPEGASSNCSLWYFSHFQDKQD
·KKIAPETRRSIEVPLNERICLQVGSQCSTNESEKPSILVEKCISPPEGDPESAVTELQCIWHNLSYMKCSWLPGR
NTSPDTNYTLYYWHRSLEKIHQCENIFREGQYFGCSFDLTKVKDSSFEQHSVQIMVKDNAGKIKPSFNIVPLTSR
VKPDPPHIKNLSFHNDLQVQWENPQNFISRCLFYEEVNNSTETHNVFYVQEAKCENPEFERNVENTSCFMVP
GVLPTLNTVRIRVKTNKLQYEDDKLWSNWSQEMSIGKKRNSTLYITMLLIVPVIVAGAIIVLLLYLKRLKIIF
PPIPDPGKIFKEMFGDQNDTLHWKKYDIYEKQTKKEETDSVVLIENTLKKASQ

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FIGURE 6272

GACCCACGCGTCCGGGGAGGAGAAAGTGGCGAGTTCCGGATCCCTGCCTAGCGCGGCCCAACCTTTACTCCAGAG
ATCATGGCTGCCGAGGATGTGGTGGCGACTGGCGCCGACCCAAGCGATCTGGAGAGCGGCGGGCTGCTGCATGAG
ATTTTCACGTCGCCGCTCAACCTGCTGCTGCTTGGCCTCTGCATCTTCTGCTCTACAAGATCGTGCGCGGGGAC
CAGCCGGCGGCCAGCGGCGACAGCGACGACGAGCCGCCCTCTGCCCCGCCTCAAGCGGCGCGACTTCACC
CCCGCCGAGCTGCGGCGCTTCGACGGCGTCCAGGACCCGCGCATACTCATGGCCATCAACGGCAAGGTGTTTCGAT
GTGACCAAAGGCCGCAAATTCTACGGGCCCCGAGGGGCCGTATGGGGTCTTTGCTGGAAGAGATGCATCCAGGGGC
CTTGCCACATTTTGCCTGGATAAGGAAGCACTGAAGGATGAGTACGATGACCTTTCTGACCTCACTGCTGCCAG
CAGGAGACTCTGAGTGACTGGGAGTCTCAGTTCACTTTCAAGTATCATCACGTGGGCAAACCTGCTGAAGGAGGGG
GAGGAGCCCCACTGTGTACTCAGATGAGGAAGAACCAAAAGATGAGAGTGCCCCGAAAAATGATTAAAGCATTTCAG
TGGAAGTATATCTATTTTTGTATTTTGCAAAATCATTGTAAACAGTCCACTCTGTCTTTAAACATAGTGATTAC
AATATTTAGAAAGTTTTGAGCACTTGCTATAAGTTTTTAAATTAACATCACTAGTGACACTAATAAAATTAACCT
CTTAGAATGCATGATGTGTTTGTGTGTGCACAAATCCAGAAAGTGAAGTGCAGTGCTGTAATACACATGTTAATAC
TGTTTTTCTTCTATCTGTAGTTAGTACAGGATGAATTTAAATGTGTTTTCTTGAGAGACAAGGAAGACTTGGGT
ATTTCCCAAAACAGGTAAAAATCTTAAATGTGCACCAAGAGCAAAGGATCAACTTTTAGTCATGATGTTCTGTAA
AGACAACAAATCCCTTTTTTTTTCTCAATTGACTTAACTGCATGATTTCTGTTTTATCTACCTCTAAAGCAAATC
TGCAAGTGTTCCAAAGACTTTGGTATGGATTAAGCGCTGTCCAGTAACAAAATGAAATCTCAAAACAGAGCTCAGC
TGCAAAAAGCATATTTCTGTGTTCTGGACTGCACTGTTGTCCTTGCCCTCACATAGACACTCAGACACCCCTC
ACAAACACAGTAGTCTATAGTTAGGATTAAAATAGGATCTGAACATTCAAAAGAAAGCTTTGGAAAAAAGAGCT
GGCTGGCCTAAAAACCTAAATATATGATGAAGATTGTAGGACTGTCTTCCCAAGCCCCATGTTTCATGGTGGGGCA
ATGGTTATTTGGTTATTTTACTCAATTGGTTACTCTCATTGAAATGAGGGAGGGACATACAGAATAGGAACAGG
TGTTTGCTCTCCTAAGAGCCTTCATGCACACCCCTGAACCACGAGGAAACAGTACAGTCGCTAGTCAAGTGTTT
TTAAAGTAAAGTATATTCATAAGGTAACAGTTATTCTGTTGTTATAAACTATACCCACTGCAAAAGTAGTAGTC
AAGTGCTAGGTCTTTGATATTGCTCTTTTGGTTAACACTAAGCTTAAGTAGACTATACAGTTGTATGAATTTGT
AAAAGTATATGAACACCTAGTGAGATTTCAAACCTGTAATTGTGGTTAAATAGTCATTGTATTTTCTTGGAAC
GTGTTTTATGATTTTACCTCAAATCAGAAAACAAAATGATGTGCTTTGGTCAGTTAATAAAAATGGTTTTACCCA
CTAAAAA

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FIGURE 6273

MAAEDVVATGADPSDLESGLLHEIFTSPNLNLLLGLCIFLLYKIVRGDQPAASGDSDDDEPPPLPRLKRRDFTP
AELRRFDGVQDPRILMAINGKVFDTVKGKRFYGPYGVFAGRDASRGLATFCLDKEALKDEYDDLSDLTAAQQ
ETLSDWESQFTFKYHHVGKLLKEGEEPTVYSDEEEPKDESARKND

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FIGURE 6274

CCGCAGCGCCGGAGTCAAAGCCGGTTCCCGGCCCCAGTCCCGTCTGCAGCAGTCTGCCTCCTCTTTCAACATGAC
AGATGCCGCTGTGTCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGCAGCCATCTCCAAGACGGCGGTAGC
GCCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTGCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAA
AGGCATTATAGACTGCGTGGTCCGTATTCCCAAGGAGCAGGGAGTTCTGTCTTCTGGCGCGGTAACCTGGCCAA
TGTCATCAGATACTTCCCCACCCAGGCTCTTAACTTCGCCTTCAAAGATAAAATACAAGCAGATCTTCCTGGGTGG
TGTGGACAAGAGAACCCAGTTTGGCTCTACTTTGCAGGGAATCTGGCATCGGGTGGTGCCGCAGGGGCCACATC
CCTGTGTTTTGTGTACCCCTCTTGATTTTGGCCGTACCCGTCTAGCAGCTGATGTGGGTAAAGCTGGAGCTGAAAG
GGAATTCGAGGCCTCGGTGACTGCCTGGTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTT
TAACGTGTCTGTGCAGGGTATTATCATCTACCGAGCCGCCTACTTCGGTATCTATGACACTGCAAAGGGAATGCT
TCCGGATCCCAAGAACACTCACATCGTCATCAGCTGGATGATCGCACAGACTGTCACTGCTGTTGCCGGGTTGAC
TTCCTATCCATTTGACACTGTTCCGCCGCCGCATGATGATGCAGTCAGGGCGCAAAGGAACTGACATCATGTACAC
AGGCACGCTTGACTGCTGGCGGAAGATTGCTCGTGATGAAGGAGGCAAAGCTTTTTTCAAGGGTGCATGGTCCAA
TGTTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGTCTTGTATGATGAAATCAAGAAGTACACATAAGTTATTTT
CTAGGATTTTTCCCCCTGTGAACAGGCATGTTGTATTATATAACATATCTTGAGCATTCTTGACAGACTCCTGGC
TGTCAGTTTCTCAGTGGCAACTATTTACTGGTTGAAAATGGGAAGCAATAATATTCATCTGACCAGTTTTCTCTT
AAAGCCATTTCCATGATGATGATGATGGGACTCAATTGTATTTTTTATTTTCAGTCACTCCTGATAAATAACAAAT
TTGGAGAAATAAAAATATCTAAAAT

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FIGURE 6275

GCGACCCTCTTCTTGGCGTAGAGTTTTTCAGATTGCTCTTGGGAATCATGCCGAAAGTAGTGTCTCGGTTCAGTAGT
CTGCTCTGACACTCGGGACCGGGAGGAATATGACGACGGCGAGAAGCCCCCTCCATGTTTACTACTGTTTGTGCGG
CCAGATGGTCCTAGTGCTGGACTGCCAGTTAGAGAAAATTGCCCATGAGGCCCCGGGACCGGTCCCGTGTGATTGA
TGCTGCCAAACATGCCCATAAAGTTTTGTAAACACAGAAGATGAGGAGACTATGTATCTGCGGAGACCTGAAGGCAT
TGAACGACAGTACAGGAAGAAAATGTGCAAAAGTGTGGACTGCCGCTCTTCTACCAATCCCAGCCAAAAGAATGCTCC
TGTTACCTTCATTGTGGATGGAGCAGTAGTCAAGTTTGGCCAGGGCTTTGGGAAAACGAACATATATACTCAGAA
ACAAGAGCCTCCTAAGAAGGTGATGATGACCAAACGGACCAAAGACATGGGCAAGTTCAGTTCGTACCCGTGTC
TACCATTGATGAAGAGGAAGAGGAGATTGAGGCTAGGGAAAGTTGCTGACTCATATGCACAGAATGCCAAAGTGAT
TGAAAAACAGCTGGAGCGCAAAGGCATGAGCAAGAGGCGACTGCAAGAGCTGGCTGAATTGGAAGCCAAAGAAAGC
GAAAATGAAGGGGACCTTGATTGACAACCAGTTCAAATAACCAGGCCTTTTTCTAAGCCCTAGACTAGAGGCAAG
CATTTAGATCAGGAGGCAAAGTAATTTCTTGATTACATAGACGGATTCTATTTATGCCCTAGCAGAAGGCTTTA
CGTTGTTTCCCATTGATTCTCCTACATTCAAGTGAGGTCTTTAACTGAGTCCATTTAACTTGCTTTCTTTTTTTT
TTTTTTTTTTTGTAGATAAAGTCTTGCTCTTTGCCCCAGGATGGAGTGCAGTGGTGCATCTCGGCTCACTGCAAC
CTCCGCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGTGCCACCAC
GCCTGGGCAACATGGTGAAACCCTGTCTCTACTAAAATACAAAAGAAATTAGCCAGGTGTGGCGGCATACCCCTG
TAGTCACGGCTACTTGGGAGGCAGAGGCAGGAGAATTGCTTGAACTCGGGAGGTGGAGGTTGCAGTGAGCTGAGA
TTGCACCACTGTACTCCAGCACTCCAGCCTGGGCGACAGAGTGAGACTCTGTCTCTACAAAAAAAAAAAAAAAAA
AAAGTAACCCAAGGGAGGGAGCTACCCTCTAGTCGGGCAGCTGATACTGCTTCCTTGCATGGATACATGGGAGGG
AGACGTTATAGATTAAAGAAATGATAGCAAGATAAACAATAATGATTTGTTGGGTATCTTTTACTTTACATTTGTTA
TTTGACAGAGGAGTGTGTATATATAGATGTTATTTTATGTCACACTGCTTCAATGATACCTATATCCATGTGTTT
GTATCCATGTTTTTATCCATTCAACTGTATTAAGGTGTTGGGACAGG

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FIGURE 6276

GAAGAACTGGAAGTGGGCTGGCCATAGGGGGAAGCGGCGCGTTAAATCCGCCCCCTCTCCATACCCTACTTTCAA
GGGGTGGGCGGTAGAGGGGAGGTTGGGGTTGGAGCAGCGGCGAGGGGGCCCCCTCCCTTGACCTCCCCCACC
ACTTGGTCGCGCCCGAAGTGTAACACTTTCTCTTTGTGCGGAGGAGCTCCTCTGTTTCCTGTGCAGTAGCTCCCGT
TGCGGCGGCACCCGTGGCAGCCCTGGCGGACGCAGGAGCGATGGCAGCGACCGATATAGCTCGCCAGGTGGGTGA
AGGTTGCCGAAGTGTCCCCCTGGCTGGACATGTGGGGTTTGACAGCTTGCCTGACCAGCTGGTGAATAAGTCCGT
CAGCCAGGGCTTCTGCTTCAACATCCTGTGCGTGGGAGAGACAGGTTTGGGCAAGTCCACCCTCATGGACACCC
GTTCAACACCAAATTCGAAGGGGAGCCAGCCACCCACACACAGCCGGGTGTCCAGCTCCAGTCTAATACCTATGA
CCTCCAAGAGAGCAACGTGAGGCTAAAGCTCACGATCGTTAGCACAGTTGGCTTTGGGGACCAGATCAACAAAGA
GGACAGCTACAAGCCTATCGTGGAATTCATCGATGCACAATTCGAGGCCTACCTGCAGGAAGAGCTAAAGATCCG
AAGAGTGCTACACACCTACCATGACTCCCGAATCCATGTCTGCTTGTATTTTCATTGCCCCCAGGGGTCATTCCCT
GAAGTCTCTGGACCTAGTGACTATGAAGAAGCTGGACAGTAAGGTGAACATCATCCCCATCATTGCCAAAGCAGA
TGCCATTTTGAAGAGTGAGCTAACAAGTTCAAAATCAAAATCACCAGCGAGCTTGTGAGCAACGGAGTCCAGAT
CTATCAGTTTCTACAGATGATGAGTCGGTGGCAGAGATCAATGGAACCATGAACGCCACCTGCCGTTTGTCTGT
CATTGGCAGCACAGAAGAACTGAAGATAGGCAACAAGATGATGAGGGCGCGGCAGTATCCTTGGGGCACTGTGCA
GGTTGAAAACGAGGCCCCACTGCGACTTTGTGAAGCTGCGGGAGATGCTGATTGCGGTCAACATGGAGGATCTGCG
GGAGCAGACCCACACCCGGCCTATGAGCTGTATCGCCGCTGTAAGCTGGAGGAGATGGGCTTCAAGGACACCGA
CCCTGACAGCAAACCCCTCAGTTTACAGGAGACATATGAGGCCAAAAGGAACGAGTTTCTAGGGGAAGTCCAGAA
AAAAGAAGAGGAGATGAGACAGATGTTTCTGTCAGCGAGTCAAAGAGAAAGAACGCGAGCTCAAAGAGGCAGAGAA
AGAGCTGCACGAGAGATTTGACCGTCTGAAGAACTGCACCAGGACGAGAAGAAGAACTGGAGGATAAGAAGAA
ATCCCTGGATGATGAAGTGAATGCTTTCAAGCAAAGAAAGACGGCGGCTGAGCTGCTCCAGTCCAGGGCTCCCA
GGCTGGAGGCTCACAGACTCTGAAGAGAGACAAAGAGAAGAAAAATAATCCATGGCTGTGTACTGAATAGTATTC
CCCCTACAGCTGGACTGGACTCCATTTAGCCTTTTAAGCCGAGGTTCTATTTTAAGTACAGCTTTTCTTTTGG
GGTGCCAGGCAGCGAGGCCCCCACCCTATCCTGCCATGTACTTCAAGCTCACTTCTTCTTTTGAAGTTCCGCA
ACTTGCTCCTGCCTCCCAGCCCCACTGGCACTGACCATGACCACCTACTTCTATTTTTTTTAGAGTTTCTTTT
TTTGATCACTTACTTTTCAAAGCACACAGTCAAACAAGGTTATGCCAAATTTCCAGGCCTTTTGAAGTATTGAGA
AGGGGAAGGGGATTTCTCACTTCAATTATAGATCATAATAGGAAGCAAAAGAAAAAATGAAAAGCAAACATAT
GCACGCACTTTTCTTGTGACAAAGCAAGAATGTAGGTTTGCTGTGTAGGTTTGGTGCTCTATTGATTGGTGAGT
GACCAGAGCAAGTATGAAGGTGATGCTGCCAAAGCACAGCCAGTTTCTTGGGAAAATTCAAGTTACAGTGGAGT
ATTTTTTTGAAGACCATATGCTTGGAGGTAGAAACAAACCAACGACCAAAAAAAAAAAAAAAAAAATCTGCTC
AGATACTCAGCCAGTAGCTCAGAGAGATGCTGAGTTAGGCCTGTCAGGTCTCCTTGGGAAAGGCTTCATATTTGC
AACTTTGATGATTCTATGTCCAGCTTCAGAGCTGCTTTCCAGAAATTACGCTTAAACAACCAACCGGTAACCA
CCACTTCCCCACACCGCCGCTGGTAATTATTTGCATTACAAACCGGAGGCGCCCTCATTGCAATTTGTGTACAG
ATTAAGTAGTTAAGGCTTGAGAAGCTCTGAATAATTCAAAGTATTAGACCCACACAGCCTTGGAGAGACCTTCA
GAACTAAGGAGGAGTTTTATATTAAGGGAGACATTTTAGTCAGTAAGACGATATAACCTACTTACTCCGTAAGG
GGAAATGAAGGCCCGGAGAAGGGAAGGGACTTGACCGAGGTCCCACTTCTGTTTCGAGGCAGAAGCCAGACTAAT
TTTCATGCCTCCTGACTCCCAATCAGTTTCACAAAGGGATTCAATCTGTTTATATACGTTACATTCTGG

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FIGURE 6277

MAATDIARQVGEGCRTVPLAGHVGFDSLDPQLVNKSVSQGFCFNILCVGETGLGKSTLMDTLFNTKFEGEPATHT
QPGVQLQSN TYDLQESNVRLKLTIVSTVGFGDQINKEDSYKPIVEFIDAQFEAYLQEELKIRRVLHTYHDSRIHV
CLYFIAPTGHSLKSLDLVTMKKLDSKVNIIPIIAKADAISKSELTKFKIKITSELVSNGVQIYQFPTDDESVAEI
NGTMNAHLPPFAVIGSTEELKIGNKMMRARQYPWGT VQVENEAHCDFVKLREMLIRVNMEDLREQTHTRHYEL YRR
CKLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVQRVKEKEAELKEAEKELHEKFDRLKKLH
QDEKKKLEDKKSLDDEVNAFKQRKTA AELLQSQGSQAGGSQTLKRDKEKKNNPWLCTE

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FIGURE 6278

CTTCCGCCAGCTTCCCTCCTCTTCCTTTCTCCGCCATCGTGGTGTGTTCTTGA CTCCGCTGCTCGCCATGTCCTTC
TCACAAGACTTTTCAGGATTAAGCGATTCTGGCCAAGAAACAAAAGCAAAATCGTCCCATTCCTCCAGTGGATTCTG
GATGAAAAC TGGAATAAAATCAGGTACA ACTCCAAAAGGAGACATTGGAGAAGAACCAAGCTGGGTCTATAAGG
AATTGCACATGAGATGGCACACATATTTATGCTGTCTGAAGGTCACGATCATGTTACCATATCAAGCTGAAAATG
TCACCACTATCTGGAGATTTTCGACGTGTTTTCTCTCTGAATCTGTTATGAACACGTTGGTTGGCTGGATTTCAGT
AATAAATATGTAAGGCCTTTCTTTTT

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FIGURE 6279

MSSHKTFRIKRFLAKKQKQNRPIPWIRMKTGNKIRYNSKRRHWRRTKLGL

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FIGURE 6280

AGATTCCGTCGCTTCTTCCGGAGCCGTACGTGGCACCGCCCCGCTCGCGGGCGGGCCGCGGGGCTTGCTGGGAAGA
GAGGCGAAGCCAGGTCACCTTTCAAGGACCCAGAAGTAGGGTTTTGGCCTAGGTAACGGGGCAGAGATGTGGTTC
GAGATTCTCCCCGGA CTCTCCGTCATGGGCGTGTGCTTGTTGATTCCAGGACTGGCTACTGCGTACATCCACAGG
TTCATAACGGGGGCAAGGAAAAAAGGGTTGCTCATT TTTGGGTATCACTGGAGTCTGATGGAAAGAGATAGGCGC
ATCTCTGGAGTTGATCGTTACTATGTGTCAAAGGGTTTGGAGAACATTGATTAAGGAAGCATTTTCCTGATTGAT
GAAAAAATAACTCAGTTATGGCCATCTACCCCTGCTAGAAGGTTACAGTGTATTATGTAGCATGCAATGTGTTA
TG TAGTGCTTAATAAAAAATAAAATG

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FIGURE 6281

ATGGACGTAGACACACGAGCCTATTTACCTCCGCTACCATAATCATCGCTATTCCCACCAGCGTCAAAC TGACT
CGCTACACTCTACGGAAGCAATATGAAGTGATCTGCTGCAGTACTCTGAGCCCTAGGGTTTCATTTTCTCTTCAC
TGTGGCCTAACC GG CATTGTACTAGCAAAC TCATCATTAGACATCGTACTACACGACACATACTACGTCGTAGCT
CACTTCCATTACGTCCTATCAATAGGAGCTGTATTGCCATCACAGGAGCCAATATTGTACCTATCACCATACTA
GTCTTTGCTGCCTGCAAGGCAGCAGTAGGCCTAGCCCTACTAGTCTCAATCTCTAACACATATGGCCTAGACTAC
GTACATAACCTAAGCCTACTCCAATGCTAA

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FIGURE 6294

MEEMKKTAIRLPKKGKQKPIKTEWNSRCVLFYFQGDISSVVDEHFSRALSNIKSPQELTPSSQSEGVMLKNDDSM
SPNQWRYSSPWTKPQPEVPVTNRAANCNLHVPGPMAVNQFSPSLARRASVRPGELWHFSSLAGTSSLEPGYSHPF
PARHLVPEPQPDGKREPLLSLLQQDRCLARPQESAARENGNPGQIAGSTGLLFNLPPGSVHYKKLYVSRGSASTS
LPNETLSELETPGKYSLTPPNHWGHPHRYLQHL

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FIGURE 6295A

[illegible]

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FIGURE 6295B

CTTTATCCCAGAACTAGAACTGTGAGAAACCAGGTTTAGAAGACAGTCACAGAACAGCACACATCCAAATTCAG
CGCCATTGAAAGTTGGCCTAAGGCTCAGTGCCACTCACCCCTCCCTCCCCAAAAGACAAGAGAAATTTGGCCAGA
TGGGGAAGGTCACCTGGAAATTGAGGCCAAAGGGCTGATCAGAATTGCCTTTATAATATATTTGATGGATGCCTAT
AAATGTGGGTTTTGCAAATATTGTTTAAAAACCAAACCTTGAAGCCAGGCATGGTGGCCCACACCTGTGGTCCCAG
CTACTCAGGAGGCTGAGGTGGGAGGATCATTTGAGCCCAGGAGGTCAAGGCTGCAGTGAGCTGTGATGACACCAC
TGCACTCCAACCTAGGTAACAGAGAGACACCTCTGTCTCTGAAAAACAAAACCTTGAAGTTTGAAACCCCCAGCT
TGCTGAGGAGCCCTTTTTATTTTTGGTACTGAGAGTCTCAAGGTCCCATAGCTACATGGTACAGGGCTGTTGTCT
GCTTGCTGCACAGCAGAAATTACACCATCCACAGGAAATGGACTATTTTTGCAGTCCAACATCAGCCAACCACAC
ACAGCCGTGTTTGGAAGCTGAAGAGTAAAGAAATTTCTAGGAATGGCTGTTGTTCTGTTTTTTAGCACAGCCATT
TAGATATAACATCCTTCACTTAAAAATTAAAAACATCAGTACTACCACCACCACCAACAACATCAACACAGATCT
TCACATCTGCCCATTCTGTGGTTAGTCAATGGCTTGCAATAAATGTGCAAACCTGCATCTATAGGAAACATTTTTG
TGATTACGGAATACTTTAGTTGATTGCTGAAAATATTGAAAGGTCTTCATTTTACAGTGATGAGTACATATGCAT
GTTTCGGGGACTTGGCCCTTCTGATGAGGGGCCCTCGGTACTCTGGATAACGAAGCTTGTGCAGAGTGGTAACCA
TGCTTACACACTAACTATAATATAAAGGAAATGAAGCCATGTTAATCTGAGAGCAGTGTGCGCCATAGTTGTGTT
GTTTACAATACTCTATAAATGGGTTCCCTGTTGCCCTGTAATTAACTGCTGCCCCTAGAGGCCCTTTCAGTTCCTT
TTCTGTCTTCCCCTTCTTAACACAAGCTCAAATTTTCTAACTTGTTTTTATTTTGAAGACTTTTAAATGGACA
TTTTCAATACATAAAAATAAACAGTGCTTTATAAAAA

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FIGURE 6296

MNP EEQIVTWLISLGVLES PKK TICDP EEFLKSS LKNGVVLCKLINRLMPGSVEKFCLDPQTEADCINNINDFLK
GCATLQVEIFDPDDLYSGVNF SKVLSTLLAVNKATEDQLSERPCGRSSSLSAANTSQTNPQGAVSSTVSGLQRQS
KT VEMTENGSHQLIVKARFNFKQTNEDELSVCKGDI IYVTRVEEGGWEGTLNGRTGWFP SNYVREIKSSERPLS
PKAVKGFETAPLTKNYYTVVLQNILDTEKEYAKELQSLLVTYLRPLQSNNNLSTVEVTSLLGNFEEVCTFQQTLC
QALEEC SKFPENQHKGCGCLLSLMPHF KSMYLAYCANHP SAVNVLTQHSDELEQFMENQGASSPGILILTNNLSK
PFMRLEKYVTLLQELERHMEDTHPDHQDILKAIVAFKTLMGQCQDLRKRKQLELQILSEPIQAWEGEDIKNLGNV
IFMSQVMVQYGACEEKEERYLMLFSNVLIMLSASPRMSGFIYQGKIP IAGTVVTRLDEIEGNDCTFEITGNTVER
IVVHCNNNQDFQEWLEQLNRLIRGPASCSSLSKTS SSSSCSAHSSFSSTGQPRGPLEPPQIIKPWSLSCLRPA PPL
RPSAALGYKERMSYILKESSKSPKTMKKFLHKKRTERKPSEEEYVIRKSTA ALEEDAQILKVI EAYCTSANFQQG
HGSSTRKDSIPQVLLPEEEKLII EETR SNGQTIMEEKS LVDTVYALKDEVRELKQENKRMKQCLEEEELKSRRDLE
KLVRRLKQTDECIRGE SSSKTSILP

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FIGURE 6297

AAAAAAAAACATGGTTGAAGCAGATCGCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAAACAAATGAGAAA
GCTCTTGAAGCAGTATTTGGCAAATATGGACGAATAGTGGAAGTACTCTTGATGAAAGACCGTGAAACCAACAAA
TCAAGAGGATTTGCTTTTGTCACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAG
TCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAAAACCATCATTGAAAGTGGTAGACGTGGACCGCCT
CCACCTCCAAGAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAGGGGACCT
CCCTCACGGGGAGGACACATGGATGACGGTGGATATTCCATGAATTTTAACATGAGTTCTTCCAGGGGACCACTC
CCAGTAAAAAGAGGACCACCACCAAGAAGTGGGGGTCTCTCTCCTAAGAGATCTGCACCTTCAGGACCAGTTCGC
AGTAGCAGTGGAATGGGAGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGGAA
CCGCTGCCCTCTCGTAGAGATGTTTATTTGTCCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGC
AGAGATTACCCAAGTTCTCGTGATACTAGAGATTATGCACCACCACCAGAGATTATACTTACCGTGATTATGGT
CATTCCAGTTCACGTGATGACTATCCATCAAGAGGATATAGCGATAGAGATGGATATGGTCTGATCGTGACTAT
TCAGATCATCCAAGTGGAGGTTCTTACAGAGATTATATGAGAGTTATGGTAACTCACGTAGTGCTCCACCTACA
CGAGGGCCCCCGCCATCTTATGGTGGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTGGA
AGTCGAGACAGTTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCTGATCGGGTTGGCAGACAAGAAAGA
GGGCTTCCCCCTTCTATGGAAGGGGGTACCCTCCTCCACGTGATTCTTACAGCAGTTCAAGCCGCGGAGCACCA
AGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGAAACAAACAAAACCTT
TGGACCAAAATCCCAGTTCAAAGAAACAAAAGTGGAACTATTCTATCATAACTACCCAAGGACTACTAAAAGG
AAAAATTGTGTTACTTTTTTTTAAATTCCCTGTTAAGTTCCCCCTCCATAATTTTTATGTTCTTGTGAGGAAAAAG
TAAAACATGTTTAAATTTTATTTGACTTTTCGATTGCTTTTCAACAAGCAAATGTTAAATGTGTTAAGACTTGTAC
TAGTGTTGTAACTTTCCAAGTAAAAGTATCCCCTAAAGGCCACTTCCTATCTGATTTTTCCAGCAAATGAGGCA
GGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAATGGAGAGATGAATCATTCTACCTATACAAACAA
GCTAGCTATTAGAGGGTGGTTGGGGTATGCTACTCATAAGATTTTCAGGGTGTCTTCCAACCTGAAATCTCAATGTT
CTCAGTACGAAAAACCTGAAATCACATGCCTATGTAAGGAAAGTGCTATTCACCCAGTAAACCCAAAAAGCAAA
TGGATAATGCTGGCCATTTTGCCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCTTCCCCCA
ATAAGACCATTTAAGTGTGTGTTAAACAACCTACAGAATACTAAATAAAAAGTTTGGCCAAAACC

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FIGURE 6298

MVEADRP GKLF I GGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKS RGFAFVTFESPADAKDAARDMNGKS LD
GKA IKVEQATKPSFESGRRGPPPPPRSRGPPRGLRGGRGGSGGTRGPPSRGGHMDDGGYS MNFNMSSSRG PLPVK
RGPPPRSGGPPPKRSAPSGPVRSSSGMGGRAPVSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSRGYS DRDGYGRDRDYSDHPSGGSYRDSYESYGNRSR SAPPTRGF
PPSYGGSSRYDDYSSSRDGYGGS RDSYSSSRSDLYSSGRDRVGRQERGLPPSMERGYPPPRDSYSSSSRGAPRG
GRGGS RSDRGGRSRY

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FIGURE 6299

CTCGTGATTACTCAGTTTGGGAACAGTGACAATAACTTTACAAATACATATACAGATGTATCTTCTGTCCACTCA
GGAAACACAGCAAGGGTCCCATTTAAGTACAAGTCAGAGGTGATTCCAGGGCACTTTGGATTCCCTCGTGCCCCAG
GATCAAGCAGTACTTACCGCTTCCACGGTACTTAGCGTTCTTGCCAATAAAAGAAGCCCCAACTCCGGCCCGTCGGC
TGTCGCTGCCAGAGGGAGGAGGGCCATGATCCAAAGGAACAGAGCAGTTGAGAAAAGTGTATTTGGTGGTCTG
AGCTTTGAAACTACAGAAGATAGTTTAAAGAACATTTTGAGAAATGGGACACACTCACAGATTGTGTGGTAATG
AGAGACCGCCAAACAAAACGTTCCAGGGGCTTAGGTTTTGTGACTTATTCTTGTGTTACAGAGGTAGATGCAGCA
ATGTGTGCTCGACCACACAAGGTTGATGGGCATGTAGTGGAACCAAAAGAGCTGTTTCTAGAGAGGATTCTGTA
AAGCCCGGTGCCCATCTAACAGTGAAGAAAATTTTTGTTGGTGGTATTAAAGAAGATACAGAAGAATATAATTTG
AGAGACTACTTTGAAAAGTATGGCAAGATTGAAACCATAGAAGTTATGGAAGACAGGCAGAGTGAAAAAAGAGA
GGATTTGCTTTTGTAACTTTTGATGGTCACGATACAGTTGATAAAATTGTTGTTTCAGAAATACCACACTATTAAT
AGGCATAATTGTGAAGCAAAAAGGCCGTTTCTAAACAAGAAATGCAGTCTGCTGGATCATAGAGAGGTCTGTGGAG
GTGGGTCTGGCAATTTTATGGGTTGCGGAGGAAGCTTTGGAGATGGTGGAGCAATCAAATTATGGACCCATGAAA
GGGGGCAGTTTTGGTGGAAAGACACTCGGGCAGTCCCTATGGTGGTGGTTATGGATCTGGTGGTGAAGTGGTGA
TATGGTAGCAGAAGGTTCTAA

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FIGURE 6300

TGGGAATCTGACGGATCGGAGGCATTTGTGAGGAGGCGCGAATCAAGTTAGCGGGGGGAAGAGTCTTAGACCTGG
CCAGTCCTCAGGGTGAGGGCCCTGAGGAAGAACTGAGGGACCTCCCACCATAGAGAGAAGAAACCCCGGCCGTGTA
CTGCGCTGCCGTGAGACTGGTGCTCCAGGAACCAGGTGGTGACGAACCTGGGTGTGAGGCACACAGCCTAAAGTCA
GCACAGCAGAGGAGGCCAGGCAGTGCCAGGAGTCAAGGCCTGTTGGATCTCATCATCCATATCCCTGTTGATAC
GTTTACCTGCTGCTCCTGAAGAAGTCGTCAATGCCTCCCGTTCCAGGCGTTCCATTCCGCAACGTTGACAACGACT
CCCCGACCTCAGTTGAGTTAGAAGACTGGGTAGATGCACAGCATCCCACAGATGAGGAAGAGGAGGAAGCCTCCT
CCGCTCTTCCACTTTGTACTTAGTATTTTCCCCCTCTTCTTTCTCCACATCCTCTTCTCTGATTCTTGGTGGTC
CTGAGGAGGAGGAGGTGCCCTCTGGTGTGATACAAATCTTACCGAGAGCATTCCCAGTAGTCCTCCACAGGGTC
CTCCACAGGGTCCTTCCCAGAGTCCTCTGAGCTCCTGCTGCTCCTCTTTTTTCATGGAGCTCATTAGTGAGGAGT
CCAGCAGCCAGAAAGGGGAGGATACAGGCACCTGTGAGGGCCTGCCAGACAGTGAGTCCTCTTTCACATATACAC
TAGATGAAAAGGTGGCCGAGTTAGTGAGTTCTCTGCTCCTCAAATACGAAGCAGAGGAGCCTGTAACAGAGGCGAG
AGATGCTGATGATTGTGATCAAGTACAAAGATTACTTTCTGTGATACTCAAGAGAGCCCGTGAGTTGATGGAGC
TTCTTTTTGGCCTTGCCCTGATAGAAGTGGGCCCTGACCACTTCTGTGTGTTTGCAAACACAGTAGGCCCTCACCG
ATGAGGGTAGTGATGATGAGGGCATGCCCCGAGAACAGCCTCCTGATTATTATTCTGAGTGTGATCTTCATAAAGG
GCAACTGTGCCTCTGAGGAGGTGATCTGGGAAGTGTGAATGCAGTAGGGGTATATGCTGGGAGGGAGCACTTCG
TCTATGGGGAGCCTAGGGAGCTCCTCACTAAAGTTTGGGTGCAGGGACATTACCTGGAGTATCGGGAGGTGCCCC
ACAGTTCTCCTCCATATTATGAATTCTGTGGGGTCCAAGAGCCCATTGAGAAAGCATCAAGAAGAAAGTACTAG
AGTTTTTAGCCAAGCTGAACAACACTGTTCCCTAGTTCCCTTCCATCCTGGTACAAGGATGCTTTGAAAGATGTGG
AAGAGAGAGTCCAGGCCACAATTGATACCGCAGATGATGCCACTGTGATGGCCAGTGAAAGCCTCAGTGTCATGT
CCAGCAACGTCCTCTTTCTGAGTGAAGTCTAGGATAGTTTCTTCCCCTTGTTGTTGAACAGGGCAGTTTAGGTT
CTAGGTAGTGGAGGGCCAGGTGGGGCTCGAGGAACGTAGTGTCTTTGCATTTCTGTCCCATATGGGTGATGTAG
AGATTTACCTGTTTTTTCAGTATTTTCTAAATGCTTTTCCCTTTGAATAGCAGGTAGTTAGCTTCAGAGTGTTAATT
TATGAATATTAGTCGCACATGTATTGCTCTTTATCTGGTTTAAGAGTAACAGTTTGATATTTGTTAAAAAATG
GAAATACCTTCTCCCTTATTTTGTGATCTGTAACAGGGTAGTGTGGTATTGTAATAGGCATTTTTTTTTTTTTTT
ACAATGTGCAATAAATCAGCAGTTAAATAGTGGAACAAAATTGAAGGGTGGTCAGTAGTTTCATTTCCCTGTCTCT
GCTTATTCTTTTGTCTTGAATAATTATATATACCTGGCTTTGCTTAGCTTGTGAGAAAGTAGCAGAAATTAA
TCTTAATAAAAAGAAAAAAGG

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FIGURE 6301

MPPVPGVPFRNVDNDSPTSVELEDWVDAQHPTDEEEEEASSASSTLYLVFSPSSFSTSSSLILGGPEEEVPSGV
IPNLTESIPSSPPQGPPQGFSQSPLSSCCSSFWSSSFSESSSQKGEDTGTCQGLPDSESSFTYTLDEKVAELVE
FLLKYEAEPPVTEAEMLMIVIKYKDYFPVILKRAREFMELLFGLALIEVGPDHFCVFANTVGLTDEGSDDGMP
ENSLIIILSVIFIKNCASEEVIWEVLNAVGVYAGREHFVYGEPRELLTKVWVQGHYLEYREVP HSSPPYEF
WGPRAHSESIKKKVLEFLAKLNNTVPSSFPSWYKDALKDVEERVQATIDTADDATVMASESLSVMSNVSFSE

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FIGURE 6302

TTTTCTTTGCTGTTCTTCATCCTCGTTGTTGCTGTCAATCATGTTCACTGTGGCTTTTACAATACAGCCTGTAAAT
TCCTTATGACATAGTTTCAGTGCATTGGCTTTATTGCCTGCTCCACAGTTCTTTACCTTTACTTGGCTTAGAGAA
ACTGTATCTTTGTTGCTTCATATAACCTTTCCCCAACCCCACTAAGCTGGACATAACTTATTAGTGGTCCTCCCG
TCACCTTTATTTGTAGAAATCTCTCTTTCACATGAGCAGGGGTTCTTTTCATGTGGTTTAGCTGACAGCAGAACTAG
TGATTCTAGACATTTTGCATGGCCCTCATTTCAGTGGCTCACAACATGAGGGAGCATCAGAACTACTTGAGGGGC
TTGTTAAAACCCAGTGCCTTAGAAGTCGGATGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCCAGG
CAGGCGGATCATTGAGGTTAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATA
CAAAAGTTAGCCGGGTGTGGTGGTGCATGCCGTGTAATCCCAGCTTCTTGGGAGGCCAAGGCACAAGAATCGCTTG
AACCAGGAGACGGAGGTTTCAGTGAATGAAGATCGTGCCATTGTATTCCAGCCTCGGCAACACAGCAGGACTGTG
ATTTTCTTTGGAGACTCCTAGATTTTCTGTGGTTTTGAAGTGAATTTGTTGGATGTTGGCAAGTGCCTCTTATGA
GCTGTTTTCTTTATCCTGCATTTGCCCCACAAAGACTTATCTGGAGGTGAGCAAAGTATGTTTGGTAGTGAGGTCA
CAAAGGCAATCAGCCCCCTTCTCCCCACTCCCATTGCCATCTTCTCAGTCCTTCTCCCTTTCTTTCCAAGTAGTT
TACCCACCCCTCCTCTTTCCCTCCCCGTGCCCTAAATAATCCACGTGTCTTCTTAAATCTCTCTTTGATCCTGT
CCTTTGATAACACCGTCAGTGCCTACTACTGGGTCTAGACAGACCTCTGTTGAGCAGTCAGAGTCTTCCCTGACT
CCACAATGCCCTTTCTTTGGCTGACCAGTATGACTACTGGTCCCCACCTTTCCCTTGCCATCCTTACCTCCCT
CCTACTAGGTTGTCCCATCCCTCTCTTCACCCATTCAATCATGACCATTTTCACTACCAAGCTCCCCCCTCCCT
GAAGGAGGCTGAGGTTTTTGTGACTCTCTAGACTCTATTGTGGGATGGAATGAACATTGCTAAAGAATCTTGTGT
TCGCTTTACTTTAAAAAGGTATTTTTTCTAATTATAAACTGATGTGTCAGTTACGGAAAAATTAGAAATGCA
GCACAAATACATGAATATTTTACCACAAAATTGCCATATAATATCTTGTCTTTTTTGGGGGTGTGAATTTTTTGC
ATTGTTCTGGTCATATTCTTTATCATGTAATTTATGTTCTTTTTTACTAAGTATTATGTGTGGTTATTATAGATT
TTCACAAAGATATATTGCTGGTAATATATTTTATTGTGTAGTCTTATTAATTTACTTAACTTCTTTCAATTGTTA
GAAATTTAGGCTATTTCCAGATTTTCAGTATTGTAAATAATGCTGTGATGACCAATTTTGTGAATAAAATGTTTT
TATGTATTTTCAAGATTATTTCCCTTAGGATAGTCTCTCAGTGCCAAGTTGTCAAAAACATCTCTATTTTGCTTATCT
TCCTGCTCTCTTGCTGCCTTAGGGGGTAGTAACTGAAACATAAAGTAAACATGCATACAAATAAAAAACATAAA
ACAAAAATAAGCAACCTGATGGTAATAGGTGAAAGTGGTAACCTGTTTTAACTTTGAATCTTGCCGGGCGCGGT
GCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACGAGGTCAGGAGTTCAAGACCAGCCT
GGCCAAGATGGTGAAATCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGTGGGCGCCTGTAATCC
CAGCTACTTGGGAGGCTGAGGCAGAGAATTGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCC
ACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAATAAAAAACAACAAAAAAACAAAAAACTTAA
ATTCTTTGCTTGTAGTGACCTTGATCATGGTTCTCTTTGTACGATAGTTGGGCATCTGTATTTCCACTTGTGTG
AATTGCTTTTAAATTTTGGTTATGGGTTTACCTTTTAAATAATCAAACATATTTATCTTTTCTGTGTGATA
GGTTTTTTTCTGTATCTTTTCTGTAAACACACAGACCCCTCCCAATCTGGACATTGAATAAATATTCAATTT
CCTTGC

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FIGURE 6303

MNIAKESCVRFTLKRYFFPNYKTDVSVTEKLEMQHKYMNILPQNCHIIISCLFWGCEFFALFWSYSLSCNLCSFLL
SIMCGYYRFSQRYIAGNIFYCVVL

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FIGURE 6304

GGGAGCTGTATGAAAGCGGAAGAGTTATAGACCGCTAACACCTGTCACTGGCCACTGGTTTCCCGGAGTTAGCGG
CAACGACCTTGCAGCCTGGACACTAGCCAGGCGCTCCCTCTTCTCACAGCGGCCACGTCTCCTTGCTTGGGAGC
CCATCGTCCCTGGCTCCGGTGGCCTCGCTGGGTCTCGGGGAAGCAGAGGACTGTTCAATTCCTGTGGCGAAAAGCCG
GAGTCGGGCCCTAGACACCCACGACTCGCAGGGTCCATGGTTCCGGAGGCCGTGAGACCTGCCGGGGCTGACAGGT
GCCAGGGCCCATGCTGCGGGAGCCTGTGTGCTCAGCCTTCTTGCGGACGGTAAAGAAGCTAAGTGGAAGAGTGT
TCCTCCTCTGGCCGTAAAGCAGGTACTCTCTGCAGCACCAGCTGTCCCCGCCCTACTCCGGACCGCCCCAAAGAC
TCCATGGGATGGACCTGAGTCAGCCGAATCCCAGCCCCCTCCCTTGGGCCTGCTGTGGTGCTGGACATCAGTGAC
AGACGGAAGCAGGAGACCATCAAGGCTACGGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCCT
TCCGGCAGCCTTATGCTGGCTTTGTCTTAAATGGAATCAAGACTGTGGAGACGCGCTGGCGTCCCCTGCTGAGCA
GCCAGCGGAAGTGTACCATCGCGTCCACATTGCTCACAGGGACTGGGAAGGCGATGCCTGGCGGGAGCTGCTGG
TGGAGAGACTCGGGATGACTCCTGCTCAGATTGAGGCCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGA
TAGCGGGACTCGTTGACATTGGGGAACTTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAG
AAAATCAAGCTGTACTGACCAACCTGAAGCAGAAGTACCTGACTGTGATTTCAAACCCAGGTGGTTACTGGAGC
CCATACCTAGGAAAGGAGGCAAGGATGTATTCCAGGTAGACATCCCAGAGCACCTGATCCCTTTGGGGCATGAAG
TGTGACAAGTGTGGGCTCCTGAAAGGAATGTTCCAGAGAAACCAGCTAAATCATGACACCTTCAATTTGCCATCA
TGACGCAGACCTGTATACATTAGGTTAAATCTGAATTTCCACTGCTTTGGAGAGTCCCACCCACTAAGCACTGTG
CATGTAAACAGGTTCCCTTTGCTCAGATGAAGGAAGTAGGGGGTGGGGCTTTCCTTGTGTGATGCCTCCTTAGGCA
CACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGCAAAGCTGCCAGTAAATGTCTCAGCATTGCTGCT
AATTTTGGTCCTGCTAGTTTCTGGATTGTACAAATAAATGTGTTGTAGATGACTGGTTAGTGTGTTGAGGCTTTGT
TCTATGTTTTCCCTGATTTGTTCTGGTCAAACTCATCAATGTGTAAGTATGATCCAGGCGACAATACAGAAA
GTCTGGGACCTGGCACTGAATGTTTGCCTGGTAGTGACTAGCCGTTAATCAACCGACTCATCCAGGATGAAGAGG
ACGTCAGACTTAGAGCAGCTGTCTGCTTTCAGGTTACTCTCACTCTTCTGAAAGTGTCTGTGAGTTTCTGAAG
CATGTGTGTTACCTGCATCACACAGCTACTTCCTATCCTAGCAATACATCCAAAATACAGCTCTAGTAGAGTGAG
GTTAACTTGAAATGTGATCAGTAGTGTGTTTTATTTTGTAGTAATTTTTTTTTTTTTTTTGGTGATTTAGCAAA
GTTTCTAGTTGTTATCCATGAGGATGATGGGCATTTCCCCCAGGTATTGACTGCAGTGG

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FIGURE 6305

MKFGCLSFRQPYAGFVLNGIKTVETRWRLSSQRNCTIAVHIAHRDWEGDACRELLVERLGMTPAQIQALLRKG
EKFGRGVIAGLVDIGETLQCPEDLTPDEVVELENQAALTNLKQKYLTVISNPRWLLEPIPRKGGKDVQVDIPEH
LIPLGHEV

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FIGURE 6306

GGAGCTGCATGAAAGCCGAAGTTATGGACCGCTAGCATCTGTCACTGGCCACCGGTTTCCGGGAGTAAGCGGCAG
CTACCTTACAGCCCTGACACGAGCCGGGTGCTCTCTCTTCTACCGCGGCCACGTCTCCTCGCTGGCTCCGGTG
GCCTCGCTGGGTCGCGAGGAGGCGGAGGACTGTACTCTGAGGCCAAAAGCCAGAGTCGGCCCTGAACGCCCACGA
CTCTCAGGGTCCAGAGGCCGTGAGACCGGCCGCGGCTGAAAGGTACCAGGGCCCCTGATGCCGGAGCCCGTGTGC
TCGGCCCTCTTGCAGACGGTAAAGAAAACCAAGTGGAAGAGTGTTTCCTCCTCTGGCCGTAAAGCAGCTGTCCCCG
CCCTACTCCGGACCGCCCCAAAGACTCCATGGGATGGACCTGAGTCAGACGGAAGCAGCAGACCATCAAGGCTAC
GGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCCTTCCGGCAGCCTTATGCTGGCTTTGTCTTA
AATGGAATCAAGACTGTGGAGACGCGCTGGCGTCCTCTGCTGAGCAGCCAGCGGAAGTGTACCATCGCCGTCCAC
ATTGCTCACAGGGACTGGGAAGGCGATGCCTGTCGGGAGCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAG
ATTCAGGCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAACT
TTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAGAAAATCAAGCTGCACTGACCAACCTGAAG
CAGAAGTACCTGACTGTGATTTCAAACCCAGGTGGTTACTGGAGCCCATACTAGGAAAGGAGGCAAGGATGTA
TTCCAGGTAGACATCCCAGAGCACCTGATCCCTTTGGGGCATGAAGTGTGACAAGTGTGGGCTCCTGAAAGGAAT
GTTCCAGAGAAACCAGCTAAATCATGGCACCTTCAATTGCCATCGTGACGCAGACCTGTATAAATTAGGTTAAA
GATGAATTTCTTGTGTGATGCCTCCTTAGGCACACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGC
AAAGCTGCCAGTAAATGTCTCAGCATTGCTGCTAATTTGGTCCTGCTAGTTTCTGGATTGTACAAATAAATGTG
TTGTAGATG

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FIGURE 6307

MCVTDKTRPPSSSWFMPAKYMTFLGPLTSFAVLHLMTFPLYLPCCAGKEAKWKS VSSSGRKA AVPALLRTAPKT
PWDGPESAESQPLPLGLLWCWTSVTDGSR RPSRLREARGACEDEVWLPLLPAALCWLCLKWNQDCGDALASP AEQ
PAELYHRRPHCSQGLGRRCLAGAAGGETRDDSCSDSGLAQERGKVWSRSDSGTR

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FIGURE 6308

GGCACGAGGGCGGGGATCAGAGAGAAGCGAGGGCCTGGTTCTGAGGGGTCTGGCTTGAGATCGGCTGAGGGAAGCG
GGCTCAGGGTCTGTGAGGAGGCAAGGTTTCGCAGAGAACAGGCCAGCCAGGAGGTGAGGAGGCCCCAGAGAAGCAC
TGAAGAAGACCTGCCTGTGGGTCTCAATTGCCAGCTCCGGCCCCACACTCTCCTGCTGCCCTGACCTGAGTCATC
ATGCTTCTTGGGCAGAAGAGTCAGCGCTACAAGGCTGAGGAAGGCCTTCAGGCCCAAGGAGAGGCACCAGGGCTT
ATGGATGTGCAGATTCCCACAGCTGAGGAGCAGAAGGCTGCATCCTCCTCTACTCTGATCATGGGAACCCTT
GAGGAGGTGACTGATTCTGGGTACCAAGTCTCCCCAGAGTCTGAGGGTGCCTCCTCTTCCCTGACTGTCACC
GACAGCACTCTGTGGAGCCAATCCGATGAGGGTTCAGCAGCAATGAAGAGGAGGGGCCAAGCACCTCCCCGGAC
CCAGCTCACCTGGAGTCCCTGTTCCGGGAAGCACTTGATGAGAAAGTGGCTGAGTTAGTTTCGTTTCTGCTCCGC
AAATATCAAATTAAGGAGCCGGTCACAAAGGCAGAAATGCTTGAGAGTGTCAAAAAATTACAAGAACCCTTT
CCTGATATCTTCAGCAAAGCCTCTGAGTGCATGCAGGTGATCTTTGGCATTGATGTGAAGGAAGTGGACCCTGCC
GGCCACTCCTACATCCTTGTCACCTGCCTGGGCCCTCCTATGATGGCCTGCTGGGTGATGATCAGAGTACGCCC
AAGACCGGCCTCCTGATAATCGTCTCGGCATGATCTTAATGGAGGGCAGCCGCGCCCCGGAGGAGGCAATCTGG
GAAGCGTTGAGTGTGATGGGGCTGTATGATGGGAGGGAGCACAGTGTCTATTGGAAGCTCAGGAAGCTGCTCACC
CAAGAGTGGGTGCAGGAGAACTACCTGGAGTACCGCCAGGCGCCCGGCAGTGATCCTGTGCGCTACGAGTTCCTG
TGGGGTCCAAGGGCCCTTGCTGAAACCAGCTATGTGAAAGTCTGGAGCATGTGGTCAGGGTCAATGCAAGAGTT
CGCATTTCTACCCATCCCTGCATGAAGAGGCTTTGGGAGAGGAGAAAGGAGTTTGAGCAGGAGTTGCAGCTAGG
GCCAGTGGGGCAGGTTGTGGGAGGGCCTGGGCCAGTGCACGTTCCAGGGCCACATCCACCACTTTCCCTGCTCTG
TTACATGAGGCCCATTCTTCACTCTGTGTTTGAAGAGAGCAGTCACAGTTCTCAGTAGTGGGGAGCATGTTGGGT
GTGAGGGAACACAGTGTGGACCATCTCTCAGTTCCTGTTCTATTGGGCGATTGGAGGTTTATCTTTGTTTCCTT
TTGGAATTGTTCCAATGTTCTTCTAATGGATGGTGTAAATGAACCTCAACATTCATTTATGTATGACAGTAGAC
AGACTTACTGCTTTTTATATAGTTTAGGAGTAAGAGTCTTGCTTTTCATTTATACTGGGAAACCCATGTTATTTT
TTGAATTGAGACACTACAAGAGCAGAGGATTAAGGTTTTTTAGAAATGTGAAACAACATAGCAGTAAAATACAT
GAGATAAAGACATAAAGAAATTAAACAATAGTTAATTCTTGCCTTACCTGTACCTCTTAGTGTACCCTATGTACC
TGAATTTGCTTGGCTTCTTTGAGAATGAAATTGAATTAAATATGAATAAATAAGTCCCCCTGAAAAAAAAAAAAA
AA

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FIGURE 6309

MLLGQKSQRYKAEEGLQAQGEAPGLMDVQIPTAEEQKAASSSSTLIMGTLEEVTDSGSPSPSQSPEGASSSLTVT
DSTLWSQSDEGSSSNEEEGPSTSPDPAHLESIFREALDEKVAELVRFLLRKYQIKEPVTKAEMLESVIKNYKNHF
PDIFSKASECMQVIFGIDVKEVDPAGHSYILVTCLGLSYDGLLGDDQSTPKTGLLIIVLGMILMEGSRAPEEAIW
EALSVMGLYDGREHSVYWKLRKLLTQEWVQENYLEYRQAPGSDPVRYEFLWGPRALAETSYVKVLEHVVRVNARV
RISYPSLHEEALGEEKGV

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FIGURE 6310

AGTTTCCAGGATGGCTTCTGCATCAACTTCTTAAAAATAATTCACACTCCTTGGAGAATGAGTCTATTAAGAGGAC
GTCTCGAGATGGAGTCAATCGAGATCTCACTGAGGCTGTTCTCGACTTCCAGGAGAAACACTAATCACTGACAA
AGAAGTTATTTACATATGTCCTTTCAATGGCCCCATTAAGGGAAGAGTTTACATCACAAATTATCGTCTTTATTT
AAGAAGTTTGGAAACGGATTCTTCTCTAATACTTGATGTTCTCTGGGTGTGATCTCGAGAATTGAAAAATGGG
AGGCGCGACAAGTAGAGGAGAAAATTCCTATGGTCTAAATATTACTTGTAAGACATGAGAAACCTGAGGTTCGC
TTTGAAACAGGAAGGCCACAGCAGAAGAGATATGTTTGAGATCCTCACGAGATACGCGTTTCCCCTGGCTCACAG
TCTGCCATTATTTGCATTTTTAAATGAAGAAAAGTTAACGTGGATGGATGGACAGTTTACAATCCAGTGGAAGA
ATACAGGAGGCAGGGCTTGCCCAATCACCATTGGAGAATAACTTTTATTAATAAGTGCTATGAGCTCTGTGACAC
TTACCCTGCTCTTTTGGTGATTCCGTATCGTGCCTCAGATGATGACCTCAGGAAGTTGCAACTTTTAGGTCCCGA
AATCGAATTCAGTGCTGTCTATGGATTCAATCCAGAAAATAAGACGGTCATTGTGCGTTGCAGTCAGCCTCTTGTC
GGTATGAGTGGGAAACGAAATAAAGATGATGAGAAATATCTCGATGTTATCAGGGAGACTAATAAACAAATTTCT
AAACTCACCATTATGATGCAAGACCCAGCGTAAATGCAGTGGCCAACAAGGCAACAGGAGGAGGATATGAAAGT
GATGATGCATATCATAACGCCGAACCTTTCTTCTTAGACATTCAATAATTCATGTTATGCGGGAATCTTTAAAA
AAAGTGAAGGACATTGTTTATCCTAATGTAGAAGATCTCATTGGTTGTCCAGTTTGGAGTCTACTCATTGGTTA
GAACATATCAAGCTCGTTTTGACAGGAGCCATTCAAGTAGCAGACAAAGTTTCTTCAGGGAAGAGTTCACTGCTT
GTGCATTGCAGTGACGGATGGGACAGGACTGCTCAGCTGACATCCTTGCCATGCTGATGTTGGATAGCTTCTAT
AGGAGCATTGAAGGGTTCGAAATACTGGTACAAAAAGAAATGGATAAGTTTGGACATAAATTTGCATCTCGAATA
GGTCATGGTGATAAAAAACCACCCGATGCTGACCGTTCTCCTATTTTCTCCAGTTTATTGATTGTGTGTGGCAA
ATGTCAAAACAGTTCCTACAGCTTTTGAATTCAATGAACAATTTTGGATTATAATTTGGATCATCTGTATAGT
TGCCGATTTGGTACTTTCTTATTCAACTGTGAATCTGCTCGAGAAAGACAGAAGGTTACAGAAAGGACTGTTTCT
TTATGGTCACTGATAAAACAGTAATAAAGAAAAATTCAAAAACCCCTTCTATACTAAAGAAATCAATCGAGTTTAA
TATCCAGTTGCCAGTATGCGTCACTTGGAACCTCTGGGTGAATTACTACATTAGATGGAACCCAGGATCAAGCAA
CAACAGCCGAATCCAGTGGAGCAGCGTTACATGGAGCTCTTAGCCTTACGCGACGAATACATAAAGCGGCTTGAG
GAACTGCAGCTCGCCAACTCTGCCAAGCTTCTGATCCCCAACTTCACCTTCCAGTCCTTCGCAAATGATGCC
CATGTGCAAACTCACTTCTGAGGGGGGACCCTGGCACCGCATTAGAGCTCGAAATAAAGCGGATAGCTGACTTTC
ATTTGGGGCATTGTGAAAAAGTAGATTAATAATTTGCTCCATGTAGAACTTGAACATAACATAATCTTAAACTC
TTGAATATGTGCCTTCTAGAAATACATATAAAGAAACCTACAGGGTCCACACGGCAATCAGAAAGAGGAGCTG
AGATGAGGTTTTGGAAAACCTGACACCTTTAAAAAGCAGTTTTTGAAGACAAAATTTAGATTTAATTTACGTC
TTGAGAAATACTATATATAAATATATATTTTGTGGGCTTAATTGAAACAACATTATTTTAAAAATCAAAGGGGAT
ATATGTTTGTGGAATGGATTTTCTGAAGCTGCTTAACAGTTGCTTTGGATTCTCTAAGATGAATCCAAATGTGA
AAGATGCATGTTACTGCCAAAACCAAATTTAGCTCAGCTTCTTAGGCATTACCCAAAAGCAAGGTGTTTAAGTAA
TTGCCAGCTTTTATACCATCATGAGTGGTGACTTAAGGAGAAATAGCTGTATAGATGAGTTTTTCATTATTTGGA
AATTTAGGGGTAGAAAATGTTTTCCCTAATTTTCCAGAGAAGCCTATTTTTATATTTTAAAAAACTGACAGGG
CCCAGTTAAATATGATTGCAATTTTTTAAATTTGCCAGTTTTATTTTCTAAATCTTTCATGAGCTTGCTAAAA
TTCGGAATGGTTTTCGGGTTGTGGCAAACCCCAAAGAGAGCACTGTCCAAGGATGTCGGGAGCATCCTGCTGCTT
AGGGGAATGTTTTCGCAAATGTTGCTCTAGTCAGTCCAGCTCATCTGCCAAATGTAGGGCTACCGTCTTGATG
CATGAGCTATTGCTAGAGCATCATCCTTAGAAATCAGTGCCCCAGATGTACATGTGTTGAGCGTATTCTTGAAAG
TATTGTGTTTATGCATTTCAATTTCAATGGTGTGGCTTCCCTCCCCACCCACGCGTGCATAAAAACTGGTTC
TACAAATTTTTACTTGAAGTACCAGGCCGTTTGTCTTTTTCAGGTTGTTTTGTTTTATAGTATTAAGTGAAATTTT
AAATGCACAGTTCTATTTGCTATCTGAACATAATTCATTTATTAAGTATATTTGTAAAAGCTAAGGCTCGAGTTAA
AACAATGAAGTGTTTTACAATGATTTGTAAAGGACTATTTATACTAATATGGTTTTGTTTTCAATGAATTAAGA
AAGATTAAATATATCTTTGTAAATATTTTATGTATAGTTTAAATGGTCTACCAAGTAAGACATCTCAAATACA
GTAGTATAATGTATGAATTTTGTAAAGTATAAGAAATTTTATTAGACATTCTCTTACTTTTTGTAAATGCTGTAA
TATTTCAATAAATAACAAAGTGCTACTCCATAAAAAAGAAAGCTAATACTAATAGCCTAAAAGATTTGTGAAATT
TCATGAAAACCTTTTAAATGGCAATAATGACTAAAGACCTGCTGTAATAAATGTATTAAGTAAACCT

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FIGURE 6311

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTGGCGGAGGGAAGCCGGCCCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCCGGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCTCCATTGCCAGCTCCTGCCACACTCCCGCCTGTTGCCCTGACCAGAGTCATCATGCTCTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTTCTACTCTAGTTGAAGTCACCCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACCTACCCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCTGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCAAGTTGGTTCATTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTCTGTCGGAATTTGGCAGTACTTCTTTCCTGTGATCTTCAGCAAAGCTTCCG
ATTCTTTGACAGTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACGTGTACATCTTTGCCACCT
GCCTGGGCCTCTCCTACGATGGCCTGCTGGGTGACAATCAGATCATGCCCAAGACAGGCTTCTGATAATCATCC
TGGCCATAATCGCAAAAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGAAGACAGTATCTTCGGGGATCCCAAGAAGCTGCTCACCAATATTTTCGTGCAGGAAAATACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGCTATGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAA
CCAGCTATGTGAAAGTCCTGCACCATATGGTAAAGATCAGTGGAGGACCTCGCATTCCTACCCACTCCTGCATG
AGTGGGCTTTGAGAGAGGGGGAAGAGTGAGTCTGAGCACGAGTTGCAGCCAGGGCCAGTGGGAGGGGGTTTGGGC
CAGTGCACCTTCCGGGGCCCCATCCCTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCATTCTTCACTCTTTGA
AGCGAGCAGTCAGCATTCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATCTTTGTTTCTGTT
GGAGTTGTTCAAATGTTCTTTTAAACGGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGCTGTTTATATAGTTTAGGAGTAAGAGTCTTGTTTTTTATTCAGATTGGGAAATCCATTCCATTTTG
TGAATTGTGACATAATAATAGCAGTGGAAAAAGTATTTGCTTAAATTTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAAGATAGTTGATTCTTGCTTGTACCTCAATCTATTCTGTAAAATTAACAAATAT
GCAAACCAGGATTTCTTGAAGTGAAGCGAAATTAATCTGAATAAATAATCTTCTCTCTC

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FIGURE 6312

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTLGEVPAAESPDPPQSPQGASSLPTTM
NYPLWSQSYEDSSNQEEEGPSTFPDLESEFQAALSRKVAKLVHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASDSLQLVFGIELMEVDPIGHVYIFATCLGLSYDGLLDNQIMPKTGFLIIILAIIAKEGDCAPEEKIWEEL
SVLEVFEGREDSIFGDPKKLLTQYFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHMHMVKISGGPRIS
YPLLHEWALREGE

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FIGURE 6313

CGGCCTGACGTCGGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCCAGCTCCTGCCCCG
CACTCCTGCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCCGAGGAGAGGCCCTGGGCCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGGAAGTTACCTTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACC
AAGAAGAGGAGGGGCCAAGAATGTTTCCCACCTGGAGTCCGAGTTCCTCAAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCACAAAGGCAGAAATGCTGGAGAGTGTCC
TCAGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGCAGCTGGTCTTTGGCATCG
AGGTGGTGGAAAGTGGTCCCCATCAGCCACTTGTACATCCTTGTACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTATGCCCCAAGACAGGCCCTCCTGATAATCGTCCTGGCCATAATCGCAATAGAGGGCGACT
GTGCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACCTACCTGGAGTACCGGCAGGTGCCGGCAGTG
ATCCTGCATGCTACGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCTGCACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCCCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGCCAGTGCACCTTCCAGGGCCCCATCCAT
TAGCTTCCACTGCCTCGTGTGATATGAGGCCCATTCCTGCCTCTTTGAAGAGAGCAGTCAGCATTCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCTGTGGAATTGTTCAAATGTTTCCTTTTAAACA
AATGGTTGGATGAACCTCAGCATCCAAGTTTATGAATGACAGTAGTCACACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCCTGTTTTTTTATTCAGATTGGGAAATCCATTCCATTTTGTGAGTTGTCACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAAAATACATGATACAAGGAACCAAAAGATAGTTAATT
CTTGCCTTATACCTCAGTCTATTATGTAAAATTAATAATATGTGTATGTTTTGCTTCTTTGAGAATGCAAAAGA
AATTAAATCTGAATAAATAA

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FIGURE 6314

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSSTLVEVTLGEVPAADSPSPPHSPQGASSFSTTI
NYTLWRQSDEGSSNQEEEGPRMFPDLESEFQAAISRKMVELVHFLLLKYRAREPVTKAEMLESVLRNCQDFFPVI
FSKASEYLQLVFGIEVVEVVPISHLYILVTCIGLSYDGLLDGNQVMPKTGLLIIVLAIIAIEGDCAPEEKIWEEL
SMLEVFEGREDSVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLKIGGEPHIS
YPPLHERALREGEE

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FIGURE 6315

CGGCCTGACGTCGGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCCAGCTCCTGCCCCG
CACTCCTGCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCCGAGGAGAGGCCCTGGGCCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGGAAGTTACCTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACC
AAGAAGAGGAGGGGCCAAGAATGTTTCCCGACCTGGAGTCCGAGTTCCAAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCAAAAGGCAGAAATGCTGGAGAGTGTCC
TCAGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGACAGCTGGTCTTTGGCATCG
AGGTGGTGGAAGTGGTCCCCATCAGCCACTTGTACATCCTTGTCACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTGATGCCCAAGACAGGCCCTCCTGATAATCGTCCTGGCCATAATCGCAATAGAGGGCGACT
GTGCCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACCTACCTGGAGTACCGGCAGGTGCCCGGCAGTG
ATCCTGCATGCTACGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCTGCACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGCCAGTGCACCTTCCAGGGCCCCATCCAT
TAGCTTCCACTGCCTCGTGTGATATGAGGCCCATTCCTGCCTCTTTGAAGAGAGCAGTCAGCATTCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCTGTGGAATTGTTCAAATGTTTCCTTTTAACA
AATGGTTGGATGAACTTCAGCATCCAAGTTTATGAATGACAGTAGTCACACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCCTGTTTTTTTATTCAGATTGGGAAATCCATTCCATTTTGTGAGTTGTCACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAAATACATGATACAAGGAACCAAAAGATAGTTAATT
CTTGCCTTATACCTCAGTCTATTATGTAAAATTAATAATATGTGTATGTTTTTGCTTCTTTGAGAATGCAAAAGA
AATTAAATCTGAATAAATAA

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FIGURE 6316

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTGCGCGGAGGGAAGCCGGCCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCCGGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCTCCATTGCCAGCTCCTGCCCCACACTCCCCGCTGTTGCCCTGACCAGAGTCATCATGCTCTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCCTTGAGGCCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTCTTCTACTCTAGTTGAAGTCACCCCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACCTACCCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCCGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCGAGTTGGTTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTCGTCGGAAAATTGGCAGTATTTCTTTCCTGTGATCTTCAGCAAAGCTTCCA
GTTCTTGCAGCTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACTTGTACATCTTTGCCACCT
GCCTGGGCCTCTCCTACGATGGCCTGCTGGGTGACAATCAGATCATGCCCAAGGCAGGCCTCCTGATAATCGTCC
TGGCCATAATCGCAAGAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGAAGACAGTATCTTGGGGGATCCCAAGAAGCTGCTCACCAACATTTCTGTCAGGAAAACCTACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGTTATGAATTCCTGTGGGGTCCAAGGGCCCTCGTTGAAA
CCAGCTATGTGAAAGTCTGCACCATATGGTAAAGATCAGTGGAGGACCTCACATTTCTTACCCACCCCTGCATG
AGTGGGTTTTGAGAGAGGGGGAAGAGTGAAGTCTGAGCACGAGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGC
CAGTGCACCTTCCGGGGCCGCATCCCTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCATTCTTCACTCTTTGA
AGCGAGCAGTCAGCATCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATTCTTTGTTTCCTGTT
GGAGTTGTTCAAATGTTCTTTTAACGGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGCTGTTTATATAGTTTAGGAGTAAGAGTCTTGTTTTTACTCAAATTGGGAAATCCATTCCATTTTG
TGAATTGTGACATAATAATAGCAGTGGTAAAAGTATTGCTTAAAATTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAGATAGTTGATTCTTGCTTGTACCTCAATCTATTCTGTAAAATTAAACAAATAT
GCAAAACCAGGATTTCTTGACTTCTTTGAGAATGCAAGCGAAATTAAATCTGAATAAATAATTCTTCTCTCCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6317

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTILGEVPAAESPDPPQSPQGASSLPTTM
NYPLWSQSYEDSSNQEEGPSTFPDLESEFQAALSRKVAELVHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASSSLQLVFGIELMEVDPIGHLYIFATCLGLSYDGLLDNQIMPKAGLLIIVLAIAREGDCAPEEKIWEEL
SVLEVFEGREDSILGDPKKLLTQHFVQENYLEYRQVPGSDPACYEFLWGPRLVETSYVKVLHMHMVKISGGPHIS
YPPLHEWVLREGEE

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FIGURE 6318

GAGCAGCGCGGCTGACGGGACCAAGGCGGCGGGAGTCTGCGGTTCGTTCCCTCGGCTGTGGACCGGGCGGCACGC
ACGCGGTGCAGGGTAACATGCGGATGCGGAAGTAATTATTTTGCCAAAGAAACATAAGAAGAAAAGGAGCGGA
AGTCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCTGAATCCAAAGTTG
CTAAGTTGGACACGCTCTCAGTGGCCCCCTTTTGCTAAAGAATTTTGATAAGCTGAATGTAAGGACAACACACTATA
CACCTCTTGCATGTGGTTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTCATTAACTTTG
ACAAGCCCTCTAACCCTCTTCCCATGAGGTGGTAGCCTGGATTGACGGATACTTCGGGTGGAGAAGACAGGGC
ACAGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAGCCACTCGCTTGGTGAAGT
CACAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGTCCGGCTGCACAATGCTATTGAAGGGGGGACCCAGCTTT
CTAGGGCCCTAGAACTCTGACAGGTGCCTTATTCCAGCGACCCCCACTTATTGCTGCAGTAAAGAGGCAGCTCC
GAGTGAGGACCATCTACGAGAGCAAAATGATTGAATACGATCCTGAAAAGAGATTAGGAATCTTTTGGGTGAGTT
GTGAGGCTGGCACCTACATTCCGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTCAGATGCAGG
AGCTTCGGAGGGTTCTTCTGGAGTCATGAGTGAAGAGGACCACATGGTGACAATGCATGATGTGCTTGATGCTC
AGTGGCTGTATGATAACCACAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCTTTGGAAAAGCTGTTGACAT
CTCATAAACGGCTGGTTATGAAAGACAGTGCAGTAAATGCCATCTGCTATGGGGCCAAGATTATGCTTCCAGGTG
TTCTTCGATATGAGGACGGCATTGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAAGGAGAAGCAATCTGCA
TGGCTATTGCATTAATGACCACAGCGGTCATCTTACCTGCGACCATGGTATAGTAGCCAAGATCAAGAGAGTG
TCATGGAGAGAGACATTACCCTCGGAAGTGGGGTTTAGGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGC
AGGGCCTTCTGGACAAGCATGGGAAGCCACAGACAGCACACCTGCCACCTGGAAGCAGGAGTATGTTGACTACA
GTGAGTCTGCCAAAAAGAGGTGGTTGCTGAAGTGGTAAAAGCCCCGAGGTAGTTGCCGAAGCAGCAAAAACTG
CGAAGCGGAAGCGAGAGAGTGAGAGTGAAGTGACGAGACTCCTCCAGCAGCTCCTCAGTTGATCAAGAAGGAAA
AGAAGAAGAGTAAGAAGGACAAGAAGGCCAAAGCTGGTCTGGAGAGCGGGGCGAGCCTGGAGATGGGGACAGTG
ATACCACCAAGAAGAAGAAGAAGAAGAAGCAAAAGAGGTAGAATTGGTTTCTGAGTAGTGAAGGCCACTTG
AAGCTGGAGGAGAACTAAAGCCTTATTGAGAAAACATGTTATAGATCCTTTTGTGCTGAGAGAGTGGAACATA
GGTCTTAGACAGGGTGAAGAGTTCTGGCACATTTTAGCTGCTACTTTGAGACCTCGGTGATGTTACCTGGTGTGG
TCATCCCATCTTGTCTGTTTTAAGGATATGGGTGGTGAAGATGAAAGAGGCAGAGTTTATCCCAATGACTTCT
CTGTTTGAGTTGGGAAGCCTCACCTTCAGACCCAGTAACTGTCCGAGCTGTCTGCTAGTGGTTGTCTTAACATC
GTAGTCTAGTTTGCAATTTTTTAAATCCCCTCTGTTTAAAGGTTTGTAAACAAAAACAAAAACTAAGTCTGC
TCAGTGAAATGCTGTAGAACCCTAAATAAGTGGTAGAAGAGTGTCACTGAATTTTGTCTCTGAATTCAGTATAAC
TGAGTTTTGTCCATGCTGGTGTCTGGGTTATAGGCCTGATGGGCTGGTAGTTTTCCATCTTGTCTGECCTAGA
GGTCAGTCCCTTGCACCTTCCTCAAAGCTTGTGTACAGTGTCACTAAATCCATCTGACTACTTGTTCCTGTGCC
CTCTTGTTTTAGGCCTCGTTTACTTTTTAAAAATGAAATTGTTTCAATTGCTGGGAGAAGATGTTGTAATTTTTAC
TTATTAAAGTCAACTTGTTAAGTTTTTTATGTATTCCCTGTTGGGTTTTCTTGTGATCTCATGCTAGCAGAGCAA
AAATTGTAAATATTTTGATTAAAAATCTAGGGACCTTTATGTCCTATTTGGAATTCGATATCAA

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FIGURE 6319

MADAEV I I L P K K H K K K K E R K S L P E E D V A E I Q H A E E F L I K P E S K V A K L D T S Q W P L L L K N F D K L N V R T T H Y T P L A C G
S N P L K R E I G D Y I R T G F I N L D K P S N P S S H E V V A W I R R I L R V E K T G H S G T L D P K V T G C L I V C I E R A T R L V K S Q Q S A G
K E Y V G I V R L H N A I E G G T Q L S R A L E T L T G A L F O R P P L I A A V K R Q L R V R T I Y E S K M I E Y D P E R R L G I F W V S C E A G T Y
I R T L C V H L G L L L G V G G Q M Q E L R R V R S G V M S E K D H M V T M H D V L D A Q W L Y D N H K D E S Y L R R V V P L E K L L T S H K R L V
M K D S A V N A I C Y G A K I M L P G V L R Y E D G I E V N Q E I V V I T T K G E A I C M A I A L M T T A V I S T C D H G I V A K I K R V I M E R D T
Y P R K W G L G P K A S Q K K L M I K Q G L L D K H G K P T D S T P A T W K Q E Y V D Y S E S A K K E V V A E V V K A P Q V V A E A A K T A K R K R E
S E S E S D E T P P A A P Q L I K K E K K K S K K D K K A K A G L E S G A E P G D G D S D T T K K K K K K K K A K E V E L V S E

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FIGURE 6320

AGGGACAGCCCAGAGGAGGCGTGGCCACGCTGCCGGCGGAAGTGGAGCCCTCCGCGAGCGCGAGGGCCGCCGGG
GCAGGCGGGGAAACCGGACAGTAGGGGCGGGGCCGGCGGATGGGGATGCGGGAGCACTACGCGGAGCTGCA
CCCGTGCCCGCCGGAATTGGGGATGCAGAGCAGCGGCAGCGGGTATGGCAGGCAGCCGGCGGGGCCGGCTCCAGC
GCAGGTGCCCCGAGAGGCAGGGGCTGGCCTGGGATGCGCGCGCACCTGCCCTCGCCCCGCCCGCCCGCACGAGGG
GTGGTGGCCGAGGCCCCGCCCGCACGCCTCGCCTGAGGCGGGTCCGCTCAGCCCAGGCGCCCGCCCCGCCCGC
GCCGATTAAATGGGCGCGGGGCTCAGCCCCCGAAACGGTCGTACACTTCGGGGCTGCGAGCGCGGAGGGCGA
CGACGACGAAGCGCAGACAGCGTCATGGCAGAGCAGGTGGCCCTGAGCCGGACCCAGGTGTGCGGGATCCTGCGG
GAAGAGCTTTTCCAGGGCGATGCCTTCCATCAGTCGGATACACACATATTCATCATCATGGGTGCATCGGGTGAC
CTGGCCAAGAAGAATCTACCCACCATCTGGTGGCTGTTCCGGGATGGCCTTCTGCCCGAAAACACCTTCATC
ATGGGCTATGCCCGTTCCCGCTCACAGTGGCTGACATCCGCAAACAGAGTGAGCCCTTCTTCAAGGCCACCCCA
GAGGAGAAGCTCAAGCTGGAGGACTTCTTTGCCCGCAACTCCTATGTGGCTGGCCAGTACGATGATGCAGCCTCC
TACCAGCGCCTCAACAGCCACATGGATGCCCTCCACCTGGGGTCACAGGCCAACC GCCTCTTCTACCTGGCCTTG
CCCCGACCGTCTACGAGGCCGTACCAAGAACATTACGAGTCCTGCATGAGCCAGATAGGCTGGAACCGCATC
ATCGTGGAGAAGCCCTTCGGGAGGGACCTGCAGAGCTCTGACCGGCTGTCCAACCACATCTCCTCCCTGTTCCGT
GAGGACCAGATCTACCGCATCGACCACTACCTGGGCAAGGAGATGGTGCAGAACCTCATGGTGCTGAGATTGCC
AACAGGATCTTCGGCCCCATCTGGAACCGGGACAACATCGCCTGCGTTATCCTCACCTTCAAGGAGCCCTTTGGC
ACTGAGGGTCGCGGGGGCTATTTCGATGAATTTGGGATCATCCGGGACGTGATGCAGAACCACTACTGCAGATG
CTGTGTCTGGTGGCCATGGAGAAGCCCGCTCCACCAACTCAGATGACGTCCGTGATGAGAAGGTCAAGGTGTTG
AAATGCATCTCAGAGGTGCAGGCCAACAAATGTGGTCCTGGGCCAGTACGTGGGAACCCCGATGGAGAGGGCGAG
GCCACCAAAGGGTACCTGGACGACCCACGGTGCCCCGCGGGTCCACCACCGCCACTTTTGCAGCCGTCTCTCCT
TATGTGGAGAATGAGAGGTGGGATGGGGTGCCCTTCATCCTGCGCTGCGGCAAGGCCCTGAACGAGCGCAAGGCC
GAGGTGAGGCTGCAGTTCATGATGTGGCCGGCGACATCTTCCACCAGCAGTGCAAGCGCAACGAGCTGGTGATC
CGCGTGACGCCAACGAGGCCGTGTACACCAAGATGATGACCAAGAAGCCGGGCATGTTCTTCAACCCCGAGGAG
TCGGAGCTGGACCTGACCTACGGCAACAGATACAAGAACGTGAAGCTCCCTGACGCCTACGAGCGCCTCATCCTG
GACGTCTTCTGCGGGAGCCAGATGCACTTCGTGCGCAGCGACGAGCTCCGTGAGGCCTGGCGTATTTTACCCCA
CTGCTGCACCAGATTGAGCTGGAGAAGCCCAAGCCCATCCCTATATTTATGGCAGCCGAGGCCCCACGGAGGCA
GACGAGCTGATGAAGAGAGTGGGTTTCCAGTATGAGGGCACCTACAAGTGGGTGAACCCCAAGCTCTGAGCC
CTGGGCACCCACCTCCACCCCGCCACGGCCACCTCCTTCCCGCCGCCCGACCCCGAGTCGGGAGGACTCCGGG
ACCATTGACCTCAGCTGCACATTCTGGCCCCGGGCTCTGGCCACCCCTGGCCCGCCCTCGCTGCTGCTACTACC
CGAGCCCAGCTACATTCTCAGCTGCCAAGCACTCGAGACCATCCTGGCCCTCCAGACCCTGCCTGAGCCCAGG
AGCTGAGTCACCTCCTCCACTCACTCCAGCCCAACAGAAGGAAGGAGGAGGGCGCCCATTCGTCTGTCCCAGAGC
TTATTGGCCACTGGGTCTCACTCCTGAGTGGGGCCAGGGTGGGAGGGAGGGACAAGGGGGAGGAAAGGGGCGAGC
ACCCACGTGAGAGAATCTGCCTGTGGCCTTGCCCGCCAGCCTCAGTGCCACTTGACATTCTTGTACCAGCAAC
ATCTCGAGCCCCCTGGATGTCCCCTGTCCCACTCTGCACTCCATGGCCACCCCGTGCCACCCGTAGGCAGC
CTCTCTGCTATAAGAAAAGCAGACGCAGCTGGGACCCCTCCCAACCTCAATGCCCTGCCATTAAATCCGCAA
ACAGCC

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FIGURE 6321

GAGCTCGCGGGCGACTGCCTGCCAGGCAGACGCTGCAGCTAAGCTGCGCGGTGGCTGTGGCAGGTGAGAGCCTCC
GGAAGGGAGGCGGGCCTCTGGCCCCGACCCTGCTCCGCGATCGCCCACTCGGGCGCCCGGCCGGGCTGGCAGGGA
AGGGCCGCGCGCCGCGCGCGTTCGCGAGGCCTGGCGGGGCGCGGGGGCCAGGAATGGCGTAAGGGGGCCCC
CCAGACTCCGAGACGGCCCCGAGCGGGTCGCCGGCTGTGGGACGGCGGCGTGCCCTTCCTTTCCCTCCCTCCAGGT
TCGCGCCCCGAGCTCTGCTAGCCACCCGTCCGACAACTTCCGGACTCCCAGGGACAGCCCTGCCATCAAGGAAGAC
AGCACAGGACTGGGACCCACCCATGAACCTTCTCAGGACAACCCAACAGCACCAGTGGGGATGTTCTCCTAAGC
CGCAGAGGGCCTGGGCACGCCATCCGTCTCCAGGAAGAGCCATGGTGTTAATGCAGGACAAGGGCAGCTCTCAG
CAGTGGCCTGGTCTGGGGGGCGAGGGTGGTGGCACAGGTCCCTTAAGCATGCTCAGAGCTGCCCTGCTGCTCATC
AGCCTGCCATGGGGGGCCCCAAGGGACAGCCAGCACCAGCCTCAGCACTGCTGGGGGTACACCCGTGCCACCGACT
GGGGGCGGCTACTTGAGCATTGGAGATGGCTCTGTGATGGAGTTTGTAGTTTCTGAGGACAGTGAGGGCATCATC
GTGATCTCCAGCCAGTACCCAGGCCAGGCCAACAGGACGGCGCCTGGCCCCATGCTCAGGGTCACCTCCCTGGAC
ACAGAGGTGCTGACCATCAAGAACGTGAGTGTATAACCTGGGGAGGCGGGGGTGGCTTTGTGGTGAGCATCCAC
TCAGGCCTGGCTGGGCTGGCCCCACTCCACATCCAGCTCGTGGACGCCCATGAGGCCCCGCCACACTGATTGAG
GAGCGGAGAGACTTCTGCATCAAGGTCTCACCTGCTGAAGACACGCCTGCCACCCTCAGCGCCGACCTGGCCCCAC
TTCTCGGAAAACCCAATCCTCTACCTGCTCCTGCCTCTTATCTTTGTCAACAAGTGTTGTTTGGGTGCAAAGTG
GAACTCGAGGTTCTGAAGGGGCTCATGCAGAGCCCCAGCCCATGCTGCTGGGCCTCCTGGGCCAGTTTCTGGTC
ATGCCCTTGTACGCTTTCCTCATGGCCAAGGTCTTCATGCTGCCCAAGGCCTGGCTCTGGGCCTCATCATCACC
TGCTCGTCGCTGGCGGCGGGGGAGCTACCTCTCAGCCTCCTTCTTGAGGGGACGTACCCCTGGCCATCTCC
ATGACTTTCTCTCTACGGTGGCTGCCACTGGCTTCTTGCTCTGTCTCGGCCATCTACAGCCGCCTGCTCAGC
ATCCATGAGACGCTCCACGTGCCCATCTCCAAGATCCTGGGGACCTGCTGTTTATTGCCATCCCCATAGCCGTG
GGCGTGCTGATCAAGTCCAAGCTCCCCAAGTCTCCAGCTGCTGCTGCAGGTGCTCAAGCCCTTCAGCTTTGTG
CTCCTCCTGGGCGGCCTCTTCCTGGCCTATCGCATGGGGGTCTTCATCCTGGCAGGCATCCGGCTACCCATCGTA
CTGGTGGGTATCACGGTGGCCCTGGTTGGCCTGTTGGTGGGCTACTGCCTAGCCACGTGTCTGAAGCTGCCAGTG
GCCCAGCGGCGGACGGTCAGCATTGAGGTAGGGGTGCAGAACAGCCTGCTGGCCTTGCCATGCTGCAGCTATCC
CTCCGCGCCTTCAAGCTGACTATGCCTCCAGGCCCCCTTCATTGTGGCGCTGAGCGGCACCTCCGAGATGCTG
GCCTTGGTCATTGGCCACTTCATCTACAGCAGCCTGTTCCAGTTCCCTTGAGGCCCTCTGGGTCAAGCTTTCATCA
GCCCCAGCCCCACACTCCACCAAAGTTCTCATGCACTATGCACTCAGAAAAATCCAGGCTTATTTTTTTACTGA
TTTTTTATTCTCCAGCTTTCAGTGCCAAAGAGGCCATGCTGAGTTAGGTAGGTGGGCGCTGCCAGAAAAATATAT
TTCAATAAAAGAGAGAAGCAAGC

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FIGURE 6322

MVLMQDKGSSQQWPGLGGEGGGTGPLSMLRAALLLISLPWGAQGTASTSISTAGGHTVPPTGGRYLSIGDGSVME
FEFPEDSEGIIVISSQYPGQANRTAPGPMLRVTSLDTEVLTIKNVSATWGGGGGFVVSISGLAGLAPLHIQLV
DAHEAPPTLIEERRDFCIKVSPAEDTPATLSADLAHFSENPIYLLPLIFVNKCSFGCKVELEVKGMLQSPQP
MLLGLLGQFLVMPLYAFLMAKVFMLPKALALGLIITCSPGGGGSYLFSLLLGGDVTLAISMTFLSTVAATGFLP
LSSAIYSRLLSIHETLHVPISKILGTLLFIAIPIAVGVLIKSKLPKFSQLLLQVVKPFSFVLLLGGFLAYRMGV
FILAGIRLPIVLVGITVPLVGLLVGYCLATCLKLPVAQRRTVSIEVGVQNSLLALAMLQLSLRRLQADYASQAPF
IVALSGTSEMLALVIGHFIYSSLPVP

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[illegible]

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FIGURE 6324

MAQYKGAASEAGRAMHLMKKREKQREQMEQMKQRIAEENIMKSNIDKKFSAHYDAVEAELKSSTVGLVTLNDMKA
KQEALVKEREKQLAKKEQSKEIQMKLEKLREKERKKEAKRKISSLSFTLEEEEGGEEEEEAAMYEEEMEREIT
TKKRKLGKNPDVDTSFDPDRDREEEENRLREELRQEWAKQEKIKSEEIEITFSYWDGSGHRRTVKMRKGNTMQQ
FLQKALEILRKDFSELRSAGVEQLMYIKEDLIIPHHSFYDFIVTKARGKSGPLFNFDVHDDVRLLSDATVEKDE
SHAGKVVLRSWYEKNKHIFPASRWEPYDPEKKWDKYTIR

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FIGURE 6325

CTTGAACGCCTGACCTCGTATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCC
CAGCCCATAATTTATTGATTTTTTAAAATTTGTCCAGCCTTCTATTACCACGTCGAATCCATTAGCTACAGCCAT
CCCATGAGAAGCTGAGTGGATTAGCCCCACCTCCTGCTCACAGACCCTGTCCGAGCACCTCATTGTCCCAACA
GCATTACTGCAGGACCCCCAGGACGTTGGACTGCCAGCTCCCTGGGTCTCCTCCTCTCTGGGGCAGATCCTCAGT
CCTCCCTTGACTTCACGACTGTGGCCAGATCATGTGTGGACTGTCCCTCTCTTTGGGTCTCCAGAGCGCTTGCA
CAAACACCCCTAACTCAGAAAGTGTGCAGCCACACTGGGACTCAGAACCCAACAACAGGGACAGAAGACTCACGCC
CTTGGGGTGGCCGGTCTCGTGGCATCAGGCATGACTTCCAGCTCCTGCGCCTTCCCCAGCAACTGCTGACTGGGG
ACCCAGACCGGGAGCTGAGCGACGGGCCTGGCGAGCGAAGCTCGGGGTCTCACTCAGGCACCAGCCCCCTCCTTGC
CCCAGGCTTGAGTGACTCACAGCCCTATTAGGCAGGAGCTGCTCTTCTGGGGTATCGCGATCCACTTAAGGATG
AGGCAGACTTGGTGACAAGCTGGTCTGAGCAGCGCTCCAGAGCCAGAACTGAGCCAGTGAGAGCGCACCCCTGG
GGCAGCCTGGATTCTTGGGGTGTCCCCGGCAGCCACACACAGCCATGCACTACCCAAGTGCCTCTCTCTCTCA
TCCTGGCCAAATGGGGCCAGGCCTTTCGATCTGCGCCTTCAATGCCAGCGGCTGCACTGGCCAAAGTGGCCA
GGGAGCAGGTGATGGACACCTTAGTTCGGATACTGGCTCGCTGTGACATCATGGTGCTGCAGGAGGTGGTGGACT
CTTCCGGCAGCGCCATCCCGCTCCTGCTTCGAGAACTCAATCGATTGTATGGCTCTGGGCCCTACAGCACCCTGA
GCAGCCCCCAGCTGGGGCGCAGCACCTACATGGAGACGTATGTGTACTTCTATCGGTACACAAAACACAGGTCC
TGAGTTCTACGTGTACAACGATGAGGATGACGTCTTTGCCCGGGAGCCATTTGTGGCCAGTTCTCTTTGCCCA
GCAATGTCCTTCCCAGCCTGGTGTGGTCCCGCTGCACACCACTCCTAAGGCCGTAGAGAAGGAGCTGAACGCCC
TCTACGATGTGTTTCTGGAGGTCTCCAGCACTGGCAGAGCAAGGACGTGATCCTGCTTGGGGACTTCAATGCTG
ACTGCGCTTCACTGACCAAAAAGCGCCTGGACAAGCTGGAGCTGCGGACTGAGCCAGGCTTCCACTGGGTGATTG
CCGATGGGGAGGACACCACAGTGGGGCCAGCACCCACTGCACCTATGCCCGCGTGTGCTGCACGGGGAGCGCT
GCCGGAGTCTGTGTCACACTGCGGCTGCCTTTGACTTCCCCACGAGCTTCCAGCTCACCAGGAGGAGGCCCTCA
ACATCAGTGACCACTACCCCGTGGAGGTGGAGCTGAAGCTGAGCCAGGCGCACAGCGTCCAGCCTCTCAGCCTCA
CTGTTCTGTTGCTGCTATCACTCCTGTCCCCCTCAGCTGTGCCCTGCTGCTGAGCGTCCCCCTACCCCCCAGGG
CCTGCTGCCCTTTTGGGACTTAAACCCAGCCTCCCCCGTCCATCCAGCCCTGGGGCTGGGGGGCTTCAACTATAG
TTGCCCTGTGACTGTAGTCCACCCCTGCCTGCCTTGTGTTGATTGCTCTTGTCTTTGGTTGGGCTTGTGCCTA
GATTAGGAGAGGAAGCCAGGGGCCCTGCACTCATGCCACCTGCCAGGTAGTGTAGTATCAGGAGTGGAGACAAAG
TGGGCTCTGGGTGGGGTAGGGGAAGGGAGGGTTAGAAAAGAGGAATGAAGATGTTGTATGACAAGAAGGAAAGT
TACTGAGAACAACCAACCCAGATTGGTGAGATAGGACACTTGTGCAGCAGATATGCCAATGGGCCATGTTTATTGT
GGATTGGTAAGAATCACCAGGAAACCATTAAGCCCCAATAGCTACAAGGAGGGTGGTTAATCTGCTATATCAAAC
TCCTTCCCTGAAACCAGCAAACACCGGGAAACATTTTGGCTCATTATAATCCGGTGAACAATGCAGTCAGGCCTG
TTATAACCGCTGAGCAGCCACACTCGCACCTCCTGGGTGCTGTAGTCTGTGTTGGTACAGGCTTCTGCATGCCTG
GTAAAGGTCCAGCCAAGGCTGGTCAAGGCAACATCTCCACACAGAAAATCTGCACCAGTTATGTAAGCTAAAAAG
CTGTGTGAACCCAGGTGTCCCGGAAAGGGGCTGCAGGACACAGCAAAATGCCAGCAGCATGCCGGACCCCTCCCT
TCCATCCTCCTCTCCAAAGAAGAGAGGTGAGGAAAAACACTGGCTGGGACGCTAGAAGGGTCATGTGTTAACTAT
AATCACATTTATGTTTGGAAACCATCACCCCAAGGTAAAAAATAAAAGGTATTCCCAGGTATGTTTGGCAA
AATAAAATAAAGGTAATTAAAAACCT

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FIGURE 6326

CTCTTTCCCTTCGGTGTGCCACTGAAGATCCTGGTGTGCCCATCGGGCCGCCGCCCGCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTTCGCATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTTTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCCCT
CTGAAGCCCTGGAGGCTGCCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTATCCGCATCAACAAGATGTTGTCTGTGCTGGGGCTGACAGGCTCC
AAACAGGCATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAGGAGCATGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
AAAAGCGGCTCATCCAGATGGCTGTGGGGTCAAGTACATCCCCAGTCGTGGCCCTCTGGACAAGTGGCGGGCCC
TGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTACCAATAAATTCTACTTCTGTCCACCTAT
GTCTTTGTATCTACATTCTTGACGGGAAGGAACCTTCTCTGGGAACCTTTGGGTTCATTGCCCTTTCACTTCAGA
AACAGGTTGACAACTCAGCCCTGCTCATGAGGCAGCAAACCTGCAAAGGGCTGGGACTGGTGGCCTTATGTCAG
TTGTCTACTCTGGAGCTTGACTTGGACCTCCCCAGGTCCTAGGCAGTAGGTTGAAAAACACTGAAGTGCTTTTCA
TGAAGCACAGCTGCAGCAAAGCCTTGCAATCCCAGGCTGGGGTCAGCCTACAGTTGTGTTGCTTATTACAACACA
TGCGGACCAAGAGGGGCTTGTGGGCTAGAGGCTGACCAGCAGCGTTTATTTAGCAAGGGTAGGTGTGCATCAT
TGGGCTTGTTCTCACCCATCTGGTTTGGCCATTCTCTCTTGGTGGGAATCATCCAGGTACTGCTGAGGTCACCTG
CGATTTGCCCCATTTCTATCTCTAGCAACCTCCTGGGCCCCATGCCCCACCCCTTCTAGAACCTGCATTCCCA
GGGCTTACACCTGACCAAAGGTCTAGGCTAACCTTTGGTTCATTGTAACAAGACCTCGGAACAGACACGTGT
GTGGCATGGTTTGGCCTGGGGATCTTAGATGTCTGACCTGAACCTATTGTAGAACAGCGCTGGCTTTTGGGGGAGC
AGCAAAAATGAGAGGAGTGCTAGGTGGGTGGCCTGAGCATCTGTATCCAGGGACAGGACTCCAAAGGCTTTTGGT
CCCAGAGCTGGGGTATGTTGGCCCCAGCCCCAGCCTGTGGCTCCCAAAAGGCTCTGGTTTTTTGTAATCTCAG
TTTACAGCCATTTCTTAGGTTTTTAATTACCTTTATTTTATTTTGCCAAACATACCTGGGAATACCTTTTATTTT
TTTTTTACCTTGGGGTGATGGTTCCAAACCATAAATGTGATTATAGTTAACACATGACCTTCTAGCGTCCCAGC
CAGTGTTTTTCTGACCTCTCTTCTTTGGAGAGGAGGATGGAAGGGAGGGGTCCGGCATGCTGCTGGCATTTTGC
TGTGTCTGACAGCCCTTTCCGGGACACCTGGGTTACACAGCTTTTAGCTTACATAACTGGTGCAGATTTTCT
GTGTGGAGATGTTGCCTTGACCAGCCTTGGCTGGACTTTACCAGGCATGCAGAAGCCTGTACCAACACAGACTAC
AGCACCCAGGAGGTGCGAGTGTGGCTGCTCAGCGGTTATAACAGGCCTGACTGCATTGTTACCGGATTATAATG
AGCCAAAATGTTTTCCCGGTGTTTGTGCTGGTTTACGGGAAGGAGTTTGATATAGCAGATTAAACCACCTCCTTGTAG
CTATTGGGGCTTAATGGTTTCTGGTGATTCTTACCAATCCACAATAACATGGCCCATTTGGCATATCTGCAAAA
AAAAAAAAAAAA

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FIGURE 6327

MGRRPARYRYCKNKPYPKSRFCRGVPDAKIRIFDLGRKKAKVDEFPLCGHMSDEYEQLSSEALEAARICANKY
MVKSCGKDGFHIRVRLHPFHVIRINKMLSCAGADRLQTGMRGAFGKPQGTVARVHIGQVIMSIRTKLQNEHVIE
ALRRAKFKFPGRQKIHISKKWGFTKFNADEFEDMVAEKRLIPDGCGVKYIPSRGPLDKWRALHS

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FIGURE 6328

CGGCCGGTTTTGGTAGGCCCGGGCCGCCAGGCCTCCGCCTGAGCCCGCACCCGCCATGGACAACCTACGCAGA
TCTTTCGGATACCGAGCTGACCACCTTGCTGCGCCGGTACAACATCCCGCACGGGCCTGTAGTAGGATCAACTCG
TAGGCTTTACGAGAAGAAGATCTTCGAGTACGAGACCCAGAGGCGGCGGCTCTCGCCCCCAGCTCGTCCGCCGC
CTCCTCTTATAGCTTCTCTGACTTGAATTGACTAGAGGGGATGCAGATATGTATGATCTTCCCAAGAAAGAGGA
CGCTTTACTCTACCAGAGCAAGGGCTACAATGACGACTACTATGAAGAGAGCTACTTCACCACCAGGACTTATGG
GGAGCCCGAGTCTGCCGGCCCGTCCAGGGCTGTCCGCCAGTCAGTGACTTCATTCCCAGATGCTGACGCTTTCCA
TCACCAGGTGCATGATGACGATCTTTTGTCTTCTTCTGAAGAGGAGTGCAAGGATAGGGAACGCCCCATGTACGG
CCGGGACAGTGCCTACCAGAGCATCACGCACTACCGCCCTGTTTCAGCCTCCAGGAGCTCCCTGGACCTGTCCTA
TTATCCTACTTCCTCCTCCACCTCTTTTATGTCCTCCTCATCATCTTCCTCTTCATGGCTCACCCGCCGTGCCAT
CCGGCCTGAAAACCGTGCTCCTGGGGCTGGGCTGGGCCAGGATCGCCAGGTCCCGCTCTGGGGCCAGCTGCTGCT
TTTCTTGGTCTTTGTGATCGTCCTCTTCTTCATTTACCACTTCATGCAGGCTGAAGAAGGCAACCCCTTCTAGAG
GGAGCCATGAGGGTCTGGGCTTCAGAGCTAGGTCTTTGGGGAAGTCCTGGCTGACTGCCTTAGCAGTGGGGGTGG
GGGTGGGGGCAGGGGCAGGGGCTTTATGTGTTTTTGCTTGGGGGGCGCTGGGCCTAGCCCAGAGTAGTGCTTGCT
CCCCCTGCCTTGTCCCACAGGGAGGCAGCAGACTCAGGCCCTCCATGGTCCTCTTTGTCATTTTGTGACATGC
ATTCTCCTTTTGTATCTTTGTTGGGGGAGGGGATTAACCAAAGGCCACCCTGACTTTGTTTTTGTGGACACAC
AATAAAAGCCCCGTTTATTGT

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FIGURE 6329A

GCGATCCGGGCGCCACCCCGCGGTTCATCGGTACCGGTGCTCTCAGGAACAGCAGCGCAACCTCTGCTCCCTGC
CTCGCCTCCCGCGCGCCTAGGTGCTGCGACTTTAATTAAAGGGCCGTCCCTCGCCGAGGCTGCAGCACC GCC
CCCCGGCTTCTCGCGCCTCAAATGAGTAGCTCCCACTCTCGGGCGGGCCAGAGCGCAGCAGGCGCGGCTCCGGG
CGGCGGCGTCGACACGCGGGACGCCGAGATGCCGGCCACCGAGAAGGACCTGGCGGAGGACGCGCCGTGGAAGAA
GATCCAGCAGAACACTTTCACGCGCTGGTGCAACGAGCACCTGAAGTGCGTGAGCAAGCGCATCGCCAACCTGCA
GACGGACCTGAGCGACGGGCTGCGGCTTATCGCGCTGTTGGAGGTGCTCAGCCAGAAGAAGATGCACCGCAAGCA
CAACCAGCGGCCACTTTCGCCCAAATGCAGCTTGAGAACGTGTCGGTGGCGCTCGAGTTCTGGACCGCGAGAG
CATCAAATGGTGTCCATCGACAGCAAGGCCATCGTGACGGGAACCTGAAGCTGATCCTGGGCCTCATCTGGAC
CCTGATCCTGCACTACTCCATCTCCATGCCCATGTGGGACGAGGAGGAGGATGAGGAGGCCAAGAAGCAGACCCC
CAAGCAGAGGCTCCTGGGCTGGATCCAGAACAAGCTGCCGCGAGCTGCCCATCACCAACTTCAGCCGGGACTGGCA
GAGCGGCCGGGCCCTGGGCGCCCTGGTGGACAGCTGTGCCCCGGGCTGTGTCTGACTGGGACTCTTGGGACGC
CAGCAAGCCCGTTACCAATGCGCGAGAGGCCATGCGACAGGCGGATGACTGGCTGGGCATCCCCAGGTGATCAC
CCCCGAGGAGATTGTGGACCCCAACGTGGACGAGCACTCTGTATGACCTACCTGTCCAGTTCCCCAAGGCCAA
GCTGAAGCCAGGGCTCCCTTGCGGCCCAAATGAACCCGAAGAAAGCCCGTGCCTACGGGCCAGGCATCGAGCC
CACAGGCAACATGGTGAAGAAGCGGGCAGAGTTCACTGTGGAGACCAGAAGTGCTGGCCAGGGAGAGGTGCTGGT
GTACGTGGAGGACCCGGCCGGACACCAGGAGGAGGCAAAAGTGACCGCCAATAACGACAAGAACCGCACCTTCTC
CGTCTGGTACGTCCCCGAGGTGACGGGGACTCATAAGGTTACTGTGCTCTTTGCTGGCCAGCACATCGCCAAGAG
CCCCTTCGAGGTGTACGTGGATAAGTCACAGGTGACGCCAGCAAAGTGACAGCCCAAGGTCCCGGCCTGGAGCC
CAGTGGCAACATCGCCAACAAGACCACCTACTTTGAGATCTTTACGGCAGGAGCTGGCACGGGCGAGGTTCAGGT
TGTGATCCAGGACCCCATGGGACAGAAGGGCACGGTAGAGCCTCAGCTGGAGGCCCGGGGCGACAGCACATACCG
CTGCAGCTACCAGCCACCATGGAGGGCGTCCACACCGTGACGTACGTTTGCCGCGCTGCCCATCCCTCGCAG
CCCCTACACTGTCACTGTTGGCCAAGCCTGTAACCCGAGTGCTGCCGGGCGGTTGGCCGGGGCCTCCAGCCCAA
GGGTGTGCGGGTGAAGGAGACAGCTGACTTCAAGGTGTACACAAAGGGCGCTGGCAGTGGGGAGCTGAAGGTAC
CGTGAAGGGCCCCAAGGGAGAGGAGCGGTGAAGCAGAAGGACCTGGGGGATGGCGTGTATGGCTTCGAGTATTA
CCCCATGGTCCCTGGAACCTATATCGTCACCATCACGTGGGTGGTTCAGAACATCGGGCGAGTCCCTTCGAAGT
GAAGGTGGGCACCGAGTGTGGCAATCAGAAGGTACGGGCTGGGCGCTGGGCTTGAGGGCGGCGTCTGGCAA
GTCAGCAGACTTTGTGGTGGAGGCTATCGGGGACGCTGGGCACGCTGGGCTTCTCGGTGGAAGGGCCATCGCA
GGCTAAGATCGAATGTGACGACAAGGGCGACGGCTCCTGTGATGTGCGCTACTGGCCGAGGAGGCTGGCGAGTA
TGCCGTTACAGTGTGTGCAACAGCGAAGACATCCGCCTCAGCCCCCTTCATGGCTGACATCCGTGACGCGCCCCA
GGACTTCCACCCAGACAGGGTGAAGGCACGTGGGCCTGGATTGGAGAAGACAGGTGTGGCCGTCAACAAGCCAGC
AGATTTCACAGTGGATGCCAAGCACGGTGGCAAGGCCCACTTCGGGTCCAAGTCCAGGACAATGAAGGCTGCCC
TGTGGAGGCGTTGGTCAAGGACAACGGCAATGGCACTTACAGCTGCTCCTACGTGCCAGGAAGCCGGTGAAGCA
CACAGCCATGGTGTCTGTTGGGAGGCGTCAGCATCCCCAACAGCCCCCTTCAGGTGAATGTGGGAGCTGGCAGCCA
CCCCAACAAAGGTCAAAGTATACGGCCCCGAGTAGCCAAGACAGGGCTCAAGGCCACAGAGCCACCTACTTCAC
TGTGGACTGCGCCGAGGCTGGCCAGGGGACGTCAGCATCGGCATCAAGTGTGCCCTGGAGTGGTAGGCCCCGC
CGAAGCTGACATCGACTTCGACATCATCGCAATGACAATGACACCTTACGGTCAAGTACAGCCCCGGGGGGC
TGGCAGCTACACCATTATGGTCTCTTTGCTGACAGGCCACGCCCACAGCCCCATCCGAGTCAAGGTGGAGCC
CTCTCATGACGCCAGTAAGGTGAAGGCCGAGGGCCCTGGCCTCAGTCGCACTGGTGTGAGCTTGGCAAGCCAC
CCACTTCACAGTAAATGCCAAAGCTGCTGGCAAAGGCAAGCTGGACGTCCAGTTCTCAGGACTACCAAGGGGA
TGCAGTGCGAGATGTGGACATCATCGACCACCATGACAACACCTACACAGTCAAGTACACGCTGTCCAGCAGGG
TCCAGTAGGCGTCAATGTCACTTATGGAGGGATCCCATCCCTAAGAGCCCTTTCTCAGTGGCAGTATCTCCAAG
CCTGGACCTCAGCAAGATCAAGGTGTCTGGCCTGGGAGAGAAGGTGGACGTGGCAAAGACCAGGAGTTCACAGT
CAAATCAAAGGGTGTGGTGGTCAAGGCAAAGTGGCATCCAAGATTGTGGGCCCCCTCGGTGCAGCGGTGCCCTG
CAAGGTGGAGCCAGGCTGGGGGCTGACAACAGTGTGGTGCCTTCTGCCCGTGAGGAAGGGCCCTATGAGGT
GGAGGTGACCTATGACGGCGTGCCCGTGCCTGGCAGCCCCCTTCTCTGGAAGCTGTGGCCCCACCAAGCCTAG
CAAGGTGAAGGCGTTTGGGCCGGGGCTGCAGGGAGGCAAGTGCGGGCTCCCCCGCCCGCTTACCATCGACACCAA
GGGCGCCGGCACAGGTGGCCTGGGCTGACGGTGGAGGGCCCTGTGAGGCGCAGCTCGAGTGCTTGGACAATGG
GGATGGCACATGTTCCGTGTCTACGTGCCACCGAGCCCGGGGACTACAACATCAACATCCTCTTCGCTGACAC

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FIGURE 6329B

CCACATCCCTGGCTCCCCATTCAAGGCCACGTGGTTCCCTGCTTTGACGCATCCAAAGTCAAGTGCTCAGGCC
CGGGCTGGAGCGGGCCACCGCTGGGGAGGTGGGCCAATTCCAAGTGGACTGCTCGAGCGCGGGCAGCGCGGAGCT
GACCATTGAGATCTGCTCGGAGGCGGGGCTTCGGCCGAGGTGTACATCCAGGACCACGGTGATGGCACGCACAC
CATTACCTACATTCCCCTCTGCCCGGGGCTACACCGTCACCATCAAGTACGGCGGCCAGCCCGTGCCCAACTT
CCCCAGCAAGCTGCAGGTGGAACCTGCGGTGGACACTTCCGGTGTCCAGTGCTATGGGCCTGGTATTGAGGGCCA
GGGTGTCTTCCGTGAGGCCACCACTGAGTTCAGTGTGGACGCCCCGGGCTCTGACACAGACCGGAGGGCCGCACGT
CAAGGCCCGTGTGGCCAACCCCTCAGGCAACCTGACGGAGACCTACGTTTACAGGACCGTGGCGATGGCATGTACAA
AGTGGAGTACACGCCTTACGAGGAGGACTGCACTCCGTGGACGTGACCTATGACGGCAGTCCCCTGCCCCAGCAG
CCCCTTCCAGGTGCCCCGTGACCGAGGGCTGCGACCCCTCCCGGGTGGTGTCCACGGGCCAGGCATCCAAAGTGG
CACCACCAACAAGCCCAACAAGTTCAGTGTGGAGACCAGGGGAGCTGGCACGGGCGGCCTGGGCCTGGCTGTAGA
GGGCCCCCTCCGAGGCCAAGATGTCTGTCATGGATAACAAGGACGGCAGCTGCTCGGTGAGTACATCCCTTATGA
GGCTGGCACCTACAGCCTCAACGTACCTATGGTGGCCATCAAGTGCCAGGCAGTCCCTTTCAAGGTCCCTGTGCA
TGATGTGACAGATGCGTCCAAGGTCAAGTGCTCTGGGCCCCGGCTGAGCCAGGCATGGTTTCGTGCCAACCTCCC
TCAGTCCCTTCCAGGTGGACACAAGCAAGGTGGTGTGGCCCCATTGCAAGTCAAAGTGCAAGGGCCCAAGGCCT
GGTGGAGCCAGTGGACGTGGTAGACAACGTGATGGCACCAGACCGTCAATTATGTGCCAGCCGAGAAGGGCC
CTACAGCATCTCAGTACTGTATGGAGATGAAGAGGTACCCCGGAGCCCCCTCAAGGTCAAGGTGCTGCCTACTCA
TGATGCCAGCAAGGTGAAGGCCAGTGGCCCCGGGCTCAACACCACTGGCGTGCCTGCCAGCCTGCCCGTGGAGTT
CACCATCGATGCAAAGGACGCCGGGAGGGCTGCTGGCTGTCCAGATCACGGATCCCCGAAGGCAAGCCGAAGAA
GACACACATCCAAGACAACCATGACGGCACGTATACAGTGGCCTACGTGCCAGACGTGACAGGTGCTACACCAT
CCTCATCAAGTACGGTGGTACGAGATCCCCTTCTCCCCGTACCGCGTGCCTGCCGTGCCCGGCCAGCGCCAG
CAAGTGCCTGTACAGGTGCTGGCATCGCCCCACCATTGAGATTGGGGAGGAGACGGTGATCACTGTGGACAC
TAAGGCGGCAGGCAAAGGCAAAGTGACGTGCACCGTGTGCACGCCTGATGGCTCAGAGGTGGATGTGGACGTGGT
GGAGAAATGAGGACGGCACTTTCGACATCTTCTACACGGCCCCCAGCCGGGCAAATACGTCACTGTGTGCGCTT
TGGTGGCGAGCAGTGCCCAACAGCCCCCTTCAAGTGACGGCTCTGGCTGGGGACCAGCCCTCGGTGCGAGCCCC
TCTACGGTCTCAGCAGTGGCCCCACAGTACACCTACGCCAGGGCGGCCAGCAGACTTGGGCCCCGAGAGGCC
CCTGGTGGGTGTCAATGGGCTGGATGTGACCAGCCTGAGGCCCTTTGACCTTGTCACTCCCCTTACCATCAAGAA
GGGCGAGATCACAGGGGAGGTTTCGATGCCCCCAGGCAAGTGGCGCAGCCCAACCATCACTGACAACAAAGACGG
CACCGTGACCGTGCGGTATGCACCCAGCGAGGCTGGCTGCACGAGATGGACATCCGCTATGACAACATGCACAT
CCCAGGAAGCCCCCTTGCAGTTCTATGTGGATTACGTCAACTGTGGCCATGTCACTGCCTATGGGCCTGGCCTCAC
CCATGGAGTAGTGAACAAGCCTGCCACCTTACCCTCAACACCAAGGATGCAGGAGAGGGGGGCTGTCTCTGGC
CATTGAGGGCCCGTCCAAAGCAGAAATCAGCTGCACTGACAACAGGATGGGACATGCAGCGTGTCTACCTGCC
TGTGCTGCCGGGGGACTACAGCATTCTAGTCAAGTACAATGAACAGCACGTCCCAGGCAGCCCCCTTCACTGCTCG
GGTCACAGGTGACGACTCCATGCGTATGTCCACCTAAAGGTTCGGCTCTGCTGCCGACATCCCCATCAACATCTC
AGAGACGGATCTCAGCCTGCTGACGGCCACTGTGGTCCCGCCCTCGGGCCGGGAGGAGCCCTGTTTGTGAAGCG
GCTGCGTAATGGCCACGTGGGGATTTTATTCTGTGCCAAGGAGACGGGGGAGCACCTGGTGCATGTGAAGAAAAA
TGGCCAGCACGTGGCCAGCAGCCCCATCCCGTGGTGATCAGCCAGTCGGAAATTGGGGATGCCAGTCTGTTCG
GGTCTCTGGTCAGGGCCTTACGAAGGCCACACCTTTGAGCCTGCAGAGTTTATCATTGATACCCGCGATGCAGG
CTATGGTGGGCTCAGCCTGTCCATTGAGGGCCCCAGCAAGGTGGACATCAACACAGAGGACCTGGAGGACGGGAC
GTGCAGGGTCACTACTGCCCCACAGAGCCAGGCAACTACATCATCAACATCAAGTTTGGCGACCAGCACGTGCC
TGGCAGCCCCCTTCTCTGTGAAGGTGACAGGCGAGGGCCGGGTGAAAGAGAGCATCACCCGAGGCGTCGGGCTCC
TTCAGTGGCCAACGTTGGTAGTCATTGTGACCTCAGCCTGAAAAATCCCTGAAATTAGCATCCAGGATATGACAGC
CCAGGTGACCAGCCCATCGGGCAAGACCCATGAGGCCGAGATCGTGGAAGGGGAGAACCACACCTACTGCATCCG
CTTTGTTCCCGCTGAGATGGGCACACACAGTCAAGCTGAAGTACAAGGGCCAGCACGTGCCTGGGAGCCCCCTT
CCAGTTACCGTGGGGCCCCCTAGGGGAAGGGGGAGCCACAAGGTCCGAGCTGGGGGCCCTGGCCTGGAGAGAGC
TGAAGCTGGAGTGCCAGCCGAATTCACTATCTGGACCCGGGAAGCTGGTGTGGAGGCTGGCCATTGCTGTGCA
GGGCCCCAGCAAGGCTGAGATCTCTTTTGAAGACCCGAAGGACGGCTCCTGTGGTGTGGCTTATGTGGTCCAGGA
GCCAGGTGACTACGAAGTCTCAGTCAAGTTCAACGAGGAACACATTCCCGACAGCCCCCTTCGTGGTGCCTGTGGC
TTCTCCGTCTGGCGACGCCCCGCCCTCACTGTTTCTAGCCTTCAGGAGTCAGGGCTAAAGGTCAACAGCCAGC

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FIGURE 6282

CAGGAGGAGACAGCCTCCCGGCCCGGGGAGGACAAGTCGCTGCCACCTTTGGCTGCCGACGTGATTCCCTGGGAC
GGTCCGTTTTCCTGCCGTCAGCTGCCGGCCGAGTTGGGTCTCCGTGGTTTCAGGCCGGCTCCCCCTTCCTGGTCTCC
CTTCTCCCGCTGGGCGGTTTATCGGGAGGAGATTGTCTTCCAGGGCTAGCAATTGGACTTTTGATGATGTTTGA
CCCAGCGGCAGGAATAGCAGGCAACGTGATTTCAAAGCTGGGCTCAGCCTCTGTTTCTTCTCTCGTGTAATCGCA
AAACCCATTTTGGAGCAGGAATTCGAATCATGTCTGTGATGGTGGTGAGAAAGAAGGTGACACGGAAATGGGAGA
AACTCCCAGGCAGGAACACCTTTTGCTGTGATGGCCGCGTCATGATGGCCCGGCAAAAGGGCATTTCCTACCTGA
CCCTTTTCCTCATCCTGGGGACATGTACACTCTTCTTCGCCTTTGAGTGCCGCTACCTGGCTGTTTCAGCTGTCTC
CTGCCATCCCTGTATTTGCTGCCATGCTCTTCCTTTTCTCCATGGCTACACTGTTGAGGACCAGCTTCAGTGACC
CTGGAGTGATTCCCTCGGGCGCTACCAGATGAAGCAGCTTTTCATAGAAATGGAGATAGAAGCTACCAATGGTGCGG
TGCCCCAGGGCCAGCGACCACCGCTCGTATCAAGAATTTCCAGATAAAACAACCAGATTGTGAAACTGAAATACT
GTTACACATGCAAGATCTTCCGGCCCTCCCGGGCCTCCCATTCGAGCATCTGTGACAACTGTGTGGAGCGCTTCG
ACCATCACTGCCCCCTGGGTGGGGAATTGTGTTGGAAGAGGAACTACCGCTACTTCTACCTCTTCATCCTTTCTC
TCTCCCTCCTCACAATCTATGTCTTCGCCTTCAACATCGTCTATGTGGCCCTCAAATCTTTGAAAATTGGCTTCT
TGGAGACATTGAAAGAACTCCTGGAAGTGTCTAGAAAGTCTCATTGCTTCTTTTACACTCTGGTCCGTCGTGG
GACTGACTGGATTTTCATACTTTCCCTCGTGGCTCTCAACCAGACAACCAATGAAGACATCAAAGGATCATGGACAG
GGAAGAATCGCGTCCAGAATCCCTACAGCCATGGCAATATTGTGAAGAACTGCTGTGAAGTGCTGTGTGGCCCT
TGCCCCCAGTGTGCTGGATCGAAGGGGTATTTGCCACTGGAGGAAAGTGGAAGTCGACCTCCCAGTACTCAAG
AGACCAAGTAGCAGCCTCTTGCCACAGAGCCCGAGCCCCACAGAACACCTGAACTCAAATGAGATGCCGGAGGACA
GCAGCACTCCCGAAGAGATGCCACCTCCAGAGCCCCAGAGCCACCACAGGAGGCAGCTGAAGCTGAGAAGTAGC
CTATCTATGGAAGAGACTTTTGTGTTGTTAATTAGGGCTATGAGAGATTTTCAGGTGAGAAGTTAAACCTGAGA
CAGAGAGCAAGTAAGCTGTCCCTTTTAACTGTTTTCTTTGGTCTTTAGTCACCCAGTTGCACACTGGCATTTC
TTGCTGCAAGCTTTTTTAAATTTCTGAAGTCAAGGCAGTGGCAGAAGATGTCAGTCACCTCTGATAACTGGAAAA
ATGGGTCTCTTGGGCCCTGGCACTGGTT

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FIGURE 6283

LFLLS CNRKTHFGAGIPIMSV MVVRKKVTRKWEKLPGRNTFC CDGRVMMARQKGIFYLTFLILGTCTLFFAFEC
RYLAVQLSPAIPVFAAMLF LFSMATLLRTSFSDPGVIPRALPD EAAFIEMEIEATNGAVPQGQRPPPRIKNFQIN
NQIVKLKYCYTCKIFRPPRASHCSICDNCVERFDHHC PWVGNCV GKRNYRYFYLFILSLSLLTIYVFAFNIVYVA
LKSLKIGFLET LKETPGTVLEV LICFFTLWSVVGLTG FHTFLVALNQTTNEDIKGSWTGKNRVQNPYSHGNIVKN
CCEVLCGPLPPSVLDRRGILPLEESGSRPPSTQETSSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPPEPPEPPQ
EAAEAEK

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FIGURE 6284

TGCTTTCCTTCGGCTTCCGTTCTTGGTCCATGTGAGAGAAGCTGGCTGCTGAAATGACTGCGAACCGGCTTGCAG
AGAGCCTTCTGGCTTTGAGCCAACAGGAAGAACTAGCGGATTTGCCAAAAGACTACCTCTTGAGTGAGAGTGAAG
ATGAGGGGGACAATGATGGAGAGAGAAAAGCATCAAAAGCTTCTGGAAGCAATCAGTTCCCTTGATGGAAAGAATA
GGCGGAAATTGGCTGAGAGGTCTGAGGCTAGTCTGAAGGTGTGAGAGTTCAATGTCAGTTCTGAAGGATCAGGAG
AAAAGCTGGTTCCTTGCAGATCTGCTTGAGCCTGTTAAAACTTCATCTTCTTTGGCCACTGTGAAAAAGCAACTGA
GTAGAGTCAAATCAAAGAAGACAGTGGAGTTACCTCTGAACAAAGAAGAGATTGAACGGATCCACAGAGAAGTAG
CATTCAATAAAACCGCACAAAGTCTCTCCAAATGGGACCCTGTGCTCTGAAGAACCGGCAGGCAGAGCAGCTGG
TTTTTCCCCTGGAGAAAGAGGAGCCAGCCATTGCTCCCATTGAACATGTGCTCAGTGGCTGGAAGGCAAGAACTC
CCCTGGAGCAGGAAATTTTCAACCTCCTCCATAAGAACAAGCAGCCAGTGACAGACCCTTTACTGACCCCTGTGG
AAAAGGCCTCTCTCCGAGCCATGAGCCTAGAAGAGGCAAGATGCGACGAGCAGAGCTTCAGAGGGCTCGGGCTC
TGCAGTCTACTATGAGGCCAAGGCTCGAAGAGAGAGAAAATCAAAAGTAAAAAGTATCACAAAGTCGTGAAGA
AAGGAAAGGCCAAGAAAGCCCTAAAAGAGTTTGAGCAGCTGCGGAAGGTAAATCCAGCTGCAGCACTAGAAGAAC
TGGA AAAAATGAAAAGGCCAGAAATGATGGAAAGAATGAGCCTTAAGCACCAAAACAGTGGGAAATGGGCCAAGT
CAAAGGCAATTATGGCCAAATATGACCTGGAGGCTCGCCAAGCTATGCAGGAACAGTTGTCTAAGAACAAGAAC
TGACACAGAACTCCAGGTAGCCTCTGAGAGTGAGGAAGAGGAGGGAGGCACAGAAGATGTGGAAGAACTCCTTG
TCCCTGATGTAGTGAATGAAGTGCAGATGAATGCAGATGGGCCGAATCCCTGGATGCTCAGGAGCTGCACCAGTG
ACACCAAAGAGGCTGCAACCCAGGAGGACCCTGAGCAACTGCCAGAGCTTGAGGCCCATGGAGTTTCTGAAAGTG
AGGGAGAAGAAAGACCAGTGGCAGAAGAAAGAAATTTGTTGAGAGAATTTGAGGAAAGGCGATCCCTTAGAAAAA
GATCTGAGCTCAGCCAAGATGTGAGCCAGCAGGCAGTCAAGAAACAAAAGATTCTGGCAGCCAGGAGGTGCTGT
CTGAATTGAGAGTACTATCTCAGAAATTGAAGGAAAACCATCAGTCCAGGAAGCAAAAAGCAAGTTCAGAGGGGA
CTATTTCCCAGGTCCAGAGAGAGGAACCTGCCCCAGAAGAAGAGGAGCCCTGTTGCTACAGAGACCAGAGAGAG
TACAGACGCTGGAAGAGCTAGAAGAGCTGGGAAAAGAAGAATGTTTCAAATAAGGAGCTTCCCAGACCTGTGT
TAGAAGGGCAGCAGTCAGAGAGGACCCCAAATAATCGCCCTGATGCCCTAAGGAGAAGAAAAAGAAGGAGCAAA
TGATCGACCTACAGAACCCTCCTAACCACACAATCTCCCTCCGTGAAGTCTTTGGCAGTTCCACAATAGAGGAGC
TGGAAGATGAAGAGGAGAGAAACCATAGGCAGATGATAAAGGAAGCTTTTGCTGGGGATGATGTCATCAGAGATT
TCTTGAAAGAGAAGAGGGGAAGCTGTGGAGGCGAGTAAGCCAAAGGACGTGGACCTGACACTACCTGGCTGGGGCG
AGTGGGTGGTGTGGGCCTAAAGCCCAGTGCCAAGAAAAGACGCGGTTTCTCATTAAAGCCCTGAGGGTCCTC
CAAGAAAAGATAAGAATTTGCCAAATGTGATTATCAATGAGAAGCGCAACATCCACGCAGCTGCTCATCAGGTAC
GAGTGCTTCCATATCCATTTACCCACCATTGGCAATTTGAAAGGACCATCCAGACCCCATAGGATCCACATGGA
ACACCCAGAGGGCTTTCCAAAAGCTGACTACTCCCAAGGTCGTACCAAGCCAGGCCATATCATTAACCCCATAA
AAGCAGAAGACGTGGGCTACCGGTCTTCCCTCAAGGTCGGACCTGTCTGTACATACAGAGGAATCCAAAACGAATCA
CCACACGTCACAAAAACAGCTGAAGAAATGCTCTGTAGATTGAGTTGCTGGAGGAGTGACAGCCAGGAGCCCTG
ACTTCACTTCTTTGGTCCAGTTTACTCTGATACAGGGTGATTCCAAAAGTGGCTCAGTACATTGCATGTAGT
TAAGCCACATTTTAAAAATAAAGGCATTTTAAATCT

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FIGURE 6285

AGAGGAAAGGGAAGGAGGAGGTCCCGAATAGCGGTGCGCGAAATGTTCCGGTGTGGAGGCCTGGCGGCGGGTGCT
TTGAAGCAGAAGCTGGTGCCCTTGGTGCGGACCGTGTGCGTCCGAAGCCCGAGGCAGAGGAACCGGCTCCAGGC
AACTTGTTCCAGCGATGGCATGTTCTCTAGAACTCCAGATGACAAGACAAATGGCTAGCTCTGGTGCATCAGGG
GGCAAAATCGATAATTCTGTGTTAGTCCCTATTGTGGGCTTATCAACAGTAGGAGCTGGTGCCTATGCCTACAAG
ACTATGAAAGAGGACGAAAAAGATACAATGAAAGAATTTCAAGGTTAGGGCTGACACCAGAACAGAAACAGAAA
AAGGCCGCGTTATCTGCTTCAGAAGGAGAGGAAGTTCTCAAGACAAGGCGCCAAGTCATGTTCTTTCTTGCTA
ATTGGTGGAGGCACAGCTGCTTTTGTGTCAGCCAGATCCATCCGGGCTCGGGATCCTGGGGCCAGGGTACTGATT
GTATCTGAAGATCCTGAGCTGCCGTACATGCGACCTCTCTTTCAAAGAAGTGTGGTTTTAGATGACCCAAAT
GTCACAAAGACACTGCGATTCAAACAGTGGAAATGGAAAAGAGAGAAGCATATATTTCCAGCCACCTTCTTTCTAT
GTCTCTGCTCAGGACCTGCCTCATATTGAGAAATGGTGGTGTGGCTGTCTCACTGGGAAGAAGGTAGTACAGCTG
GATGTGAGAGACAACATGGTGAACCTTAATGATGGCTCTCAAATAACCTATGAAAAGTGTGATTGCAACAGGA
GGTACTCCAAGAAGTCTGTCTGCCATTGATAGGGCTGGAGCAGAGGTGAAGAGTAGAACAACGCTTTTCAGAAAG
ATTGGAGACTTTAGAAGCTTGGAGAAGATTTACGGGAAGTCAAATCAATTACGATTATCGGTGGGGGCTTCCTT
GGTAGCGAACTGGCCTGTGCTCTTGGCAGAAAGGCTCGAGCCTTGGGCACAGAAGTGATTCAACTCTTCCCGAG
AAAGGAAATATGGGAAGATCCTCCCGAATACCTCAGCAACTGGACCATGGAAGAAAGTCAAGACGAGAGGGGGTT
AAGGTGATGCCCAATGCTATTGTGCAATCCGTTGGAGTCAGCAGTGGCAAGTTACTTATCAAGCTGAAAGACGGC
AGGAAGGTAGAACTGACCACATAGTGGCAGCTGTGGCCTGGAGCCCAATGTTGAGTTGGCCAAGACTGGTGGC
CTGGAAATAGACTCAGATTTTGGTGGCTTCCGGGTAAATGCAGAGCTACAAGCACGCTCTAACATCTGGGTGGCA
GGAGATGCTGCATGCTTCTACGATATAAAGTTGGGAAGGAGGCGGGTAGAGCACCATGATCAGCTGTTGTGAGT
GGAAGATTGGCTGGAGAAAATATGACTGGAGCTGCTAAGCCGTACTGGCATCAGTCAATGTTCTGGAGTGATTG
GGCCCCGATGTTGGCTATGAAGCTATTGGTCTTGTGGACAGTAGTTTGCCACAGTTGGTGTGTTTTGCAAAAGCA
ACTGCACAAGACAACCCCAAATCTGCCACAGAGCAGTCAGGAAGTGGTATCCGATCAGAGAGTGAGACAGAGTCC
GAGGCCTCAGAAATTACTATTCTCCAGCACCCCGGCAGTTCCACAGGCTCCCGTCCAGGGGGAGGACTACGGC
AAAGGTGTCATCTTCTACCTCAGGGACAAAGTGGTCGTGGGGATTGTGCTATGGAACATCTTTAACCGAATGCCA
ATAGCAAGGAAGATCATTAAGGACGGTGAGCAGCATGAAGATCTCAATGAAGTAGCCAAACTATTCAACATTCAT
GAAGACTGAAGCCCCACAGTGAATTGGCAA

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FIGURE 6286

MFRCGGLAAGALKQKLVLVRLTVCVRSRQRNRLPGNLFQRWHVPLELQMTROMASSGASGGKIDNSVLVLIVGL
STVGAGAYAYKTMKEDEKRYNERISGLGLTPEQKQKKAALSASEGEEVPQDKAPSHVPFLLIGGGTAFAAARSI
RARDPGARVLIVSEDPPELPMRPPLSKELWFSDDPNVTKTLRFKQWNGKERSIYFQPPSFYVSAQDLPHIENGGV
AVLTGKKVQLDVRDNMVKLNDGSQITYEKCLIATGGTPRSLSAIDRAGAEVKSRTTLFRKIGDFRSLEKISREV
KSITIIGGGFLGSELACALGRKARALGTEVIQLFPEKGNMGKILPEYLSNWTMEKVRREGVKVMPNAIVQSVGVS
SGKLLIKLKDGRKVETDHIVAAGLEPNVELAKTGGLEIDSDFGGFRVNAELQARSNIWVAGDAACFYDIKLGRR
RVEHHDHAVVSGRLAGENMTGAAKPYWHQSMFWSDLGPDVGYEAGLVDSSLPTVGVF AKATAQDNPKSATEQSG
TGIRSESETESEASEITIPPSTPAVPQAPVQGEDYGKGVI FYLRDKVVVGIVLWNIFNRMPIARKIIKDGEQHED
LNEVAKLFNIHED

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FIGURE 6287

CCCTCCCCTGCCTGCATTCCCGGGACGGACCCGAGGGAAGAAGCCTCAGGAGGAGGGTGTGGGCCGAGGCGCGGC
GGCGGCTGGAGCAGCGCGGTAGGGTCCTTCGCCAGAGCATCCGGTCCGAGGGCGCACACAGGCAGAAGGCTCGGG
GCTCGTCCACTCTCCTCCCTCTCTCCTCCTCTCCCTGGCTTTGTGTTGGTGCCTCCGAGCTGCAAGGAGGGTGGC
CTGGAGGAGGAGGAGGGGGGGCCCGGAGTGAGAGGCACCCCTTCACGCGCGCGCGCGCACACGGTGCCGGCGCAC
GCACACACGGGCGGACACACACACACGCGCGCACACACACGACAGAGCTCGCTCGCCTCGAGCGCACGAACG
TGGACGTTCTCTTTGTGTGGAGCCCTCAAGGGGGGTGGGGCCCCGGTTTCGGTCCGGGGGAGATGGCGCAGCCCA
TCCTGGGCCATGGGAGCCTGCAGCCCGCCTCGGCCGCTGGCCTGGCGTCCCTGGAGCTCGACTCGTCGCTGGACC
AGTACGTGCAGATTTCGCATCTTCAAAATAATCGTGATTGGGGACTCCAACGTGGGCAAGACCTGCCTGACCTTCC
GCTTCTGCGGGGGTACCTTCCCAGACAAGACTGAAGCCACCATCGGCCGTGGACTTCAGGGAGAAGACCGTGGAAA
TCGAGGGCGAGAAGATCAAGGTTCAAGGTGTGGGACACAGCAGGTCAAGAACGTTTCCGCAAAAGCATGGTCGAGC
ATTACTACCGCAACGTACATGCCGTGGTCTTCGTCTATGACGTCACCAAGATGACATCTTTCACCAACCTCAAAA
TGTGGATCCAAGAATGCAATGGGCATGCTGTGCCCCCACTAGTCCCCAAAGTGCTTGTGGGCAACAAGTGTGACT
TGAGGGAACAGATCCAGGTGCCCTCCAACCTTAGCCCTGAAATTTGCTGATGCCCAACATGCTCTTGTTTGAGA
CATCGGCCAAGGACCCCAAAGAGAGCCAGAACGTGGAGTCGATTTTCATGTGCTTGGCTTGCCGATTGAAGGCC
AGAAATCCCTGCTGTATCGTGATGCTGAGAGGCAGCAGGGGAAGGTGCAGAACTGGAGTTCACAGGAAGCTA
ACAGTAAACTTCCTGTCTTGTGAAACCAAACGATATAAATACAAGATAAATTATCACTGGAGTTTTTCTTT
CCCTTTTTTCTGTGCCTGCATAATGCTGACACCTGCTTGTTCATACAATTGATATCAAAATAAAATTTGTAT
AGATTATC

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FIGURE 6288

MAQPILGHGSLQPASAAGLASLELDSSLDQYVQIRIFKIIVIGDSNVGKTCLTFRFCGGTFPDKTEATIGVDFRE
KTVEIEGEKIKVQVWDTAGQERFRKSMVEHYRNVHAVVFVYDVTKMTSFTNLKMWIECNHGVPLVPKVLVG
NKCDLREQIQVPSNLALKFADAHNMLLFETSAKDPKESQNVESIFMCLACRLKAQKSLLYRDAERQQGKVQKLEF
PQEANSKTSCPC

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FIGURE 6289

GCCCCACCCTCGACATGCGCTTCCGGCGACGCCTTAGCGCTGACCCCCACGCAACCCAGCGAAACTCCGCGGAG
CGCGCGCGGCACGATGGACGGTCGGGTGCAGCTGATGAAGGCCCTCCTGGCCGGGCCCCCTCCGGCCCCGCGGCGCG
TCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGTTTGACGGAGATAACCGACCGACTCCCGGAGTTTCATCGTGCA
GACGAGCTCCTACATGTTTCGTGGACGAGAACACGTTCTCCAACGACGCCCTGAAGGTGCAAGCTGGGCTCCTGTT
ACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCCACCTCCACTCCTCCAGACTGCCAGCCAACTACATC
ATTCTGCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCAACAGACTGTGGCTCCTAGTG
ATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCCTGGACAGTGATCCAGACAGCTGGCCGTCCCCCA
AGGAGCCTGTCACCTTCAGCGAGACCCATTTCCCTCCCCATCCCCAGAGACCTCTTGTTGTTCCCTGCCACATAGCTG
CCAGGGCTTAAGTGTGCCTGGCAACCAATCGAATCTCTCATTTTCTCCTGTGGACCAGTTAGTTTTGCCTAGAA
TCCTGTTTTCTTCTGAATTTGCAGCTGTCTCTCTGATGGGTGCCTTTTGTTCAACACAGTAAGCCCTGCTCCCTT
CCCTGCTCTAATACTACCTGTACAAAGGTTTTTTCCTTATTTTAAATAAATGTCAGACACTATT

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FIGURE 6290

MHIWTLSC TSGASWAPVTYWTDHPQPLLPTHLS SRLPANYIILPTDLRYHCHRHPHLTNRLWLLVMWTHLGGI
RAGHSPWTVIQTAGRPPRSLSPSARPISSPSPETSCVPAT

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FIGURE 6291

TGAAGGCCCTCCTGGCCGGGCCCCCTCCGGCCCCGCGGCGCGTCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGT
TTGACGGAGATACCGACCGACTCCCGGAGTTTCATCGTGACAGACGAGCTCCTACATGTTTCGTGGACGAGAACACGT
TCTCCAACGACGCCCTGAAGCCCAGCCCCCTCCATGCACATTTGGACGCTGTCCTGCACTTCAGGTGCAAGCTGGG
CTCCTGTTACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCCACCTCCACTCCTCCAGACTGCCAGCCA
ACTACATCATTCTGCCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCAACAGACTGTGGC
TCCTAGTGATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCCTGGACAGTGATCCAGACAGCTGGCC
GTCCCCCAAGGAGCCTGTCACCTTCAGCGAGACCCATTTCCTCCCCATCCCCAGAGACCTCTTGTTCTCCTGCCA
CATAGCTGCCAGGGCTTAAGTGTGCCTGGCAACCAAATCGAATCTCTC

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FIGURE 6292

MFVDENTFSNDALKPSPSMHIWTLSC TSGASWAPVTYWDHPQPLLP THLHSSRLPANYIILPTDLRYHCHRHP
HLTNRLWLLVMWTHLGGIRAGHSPWTVIQTAGRPPRSLSPSARPISSPSPETSCVPAT

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FIGURE 6293

CGGCACGAGGACAGAATCAGGTGATGGTCCAGAATTAAGAGCTGTCACCTGTGTCATTCACTCACAAATGGAAGAA
ATGAAGAAGACTGCCATCCGGCTGCCCAAAGGCCAAACAGAAGCCTATAAAGACGGAATGGAATTCCTCGGTGTGTC
CTTTTACCTACTTCCAAGGGGACATCAGCAGCGTAGTGGATGAACACTTCTCCAGAGCTCTGAGCAATATCAAG
AGCCCCCAGGAATTGACCCCTCGAGTCAGAGTGAAGGTGTGATGCTGAAAAACGATGATAGCATGTCTCCAAAT
CAGTGGCGTTACTCGTCTCCATGGACAAAGCCACAACCAGAAGTACCTGTCACAAACCGTGCCGCCAACTGCAAC
TTGCATGTGCCTGGTCCCATGGCTGTGAATCAGTTCTCACCGTCCCTGGCTAGGAGGGCCTCTGTTTCGGCCTGGG
GAGCTGTGGCATTCTCCTCCCTGGCGGGCACCAGCTCCTTAGAGCCTGGCTACTCTCATCCCTTCCCCGCTCGG
CACCTGGTTCCAGAGCCCCAGCCTGATGGGAAACGTGAGCCTCTCCTAAGTCTCCTCCAGCAAGACAGATGCCTA
GCCCCGTCTCAGGAATCTGCCGCCAGGGAGAAATGGCAACCCTGGCCAGATAGCTGGAAGCACAGGGTTGCTCTTC
AACCTGCCTCCCGGCTCAGTTCACCTATAAGAACTATATGTATCTCGTGGATCTGCCAGTACCAGCCTTCCAAAT
GAAACTCTTTCAGAGTTAGAGACACCTGGGAAATACTCACTTACACCACCAAACCACTGGGGCCACCCACATCGA
TACCTGCAGCATCTTTAGTCAAGTTGGAGGAGAAAGACAACACTTGGTCTAAGACACGGCAGCAAGACATCCCTG
CATATTGTTCCAGATAAAAAATGAAAGCTGCTCACACCCACTTGCTCCCCAATCTGTTAAACAGCTTCGTGTCTA
GTATGAGCTCAGTACTTGCCCTGTGAAAATCCCAGAAGCCCCCGCTGTCAATGTTCCCCATCCACACCCTGCTTG
CTCCTGTGTAACAGCTCAGATGATGAATAATAATAAACTGTACTTTTTTGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6329C

CTCTTTTGAGTCAGCCTGAACGGGGCCAAGGGGGCGATCGATGCCAAGGTGCACAGCCCCTCAGGAGCCCTGGA
GGAGTGCTATGTCACAGAAATTGACCAAGATAAGTATGCTGTGCGCTTCATCCCTCGGGAGAATGGCGTTTACCT
GATTGACGTCAAGTTCAACGGGCACCCACATCCCTGGAAGCCCCTTCAAGATCCGAGTTGGGGAGCCTGGGCATGG
AGGGGACCCAGGCTTGGTGTCTGCTTACGGAGCAGGTCTGGAAGGCGGTGTCACAGGGAACCCAGCTGAGTTCGT
CGTGAACACGAGCAATGCGGGAGCTGGTGCCCTGTGCGGTGACCATTGACGGCCCCCTCCAAGGTGAAGATGGATTG
CCAGGAGTGCCCTGAGGGCTACCGCGTCACCTATACCCCCATGGCACCTGGCAGCTACCTCATCTCCATCAAGTA
CGGCGGGCCCCCTACCACATTGGGGGCAGCCCCTTCAAGGCCAAAGTCACAGGCCCCCGTCTCGTCAGCAACCACAG
CCTCCACGAGACATCATCAGTGTGTTGTAGACTCTCTGACCAAGGCCACCTGTGCCCCCAGCATGGGGCCCCGGG
TCCTGGGCGCTGCTGACGCCAGCAAGGTGGTGGCCAAGGGCCTGGGGCTGAGCAAGGCCTACGTAGGCCAGAAGAG
CAGCTTCACAGTAGACTGCAGCAAAGCAGGCAACAACATGCTGCTGGTGGGGTTTCATGGCCCAAGGACCCCCCTG
CGAGGAGATCCTGGTGAAGCACGTGGGCAGCCGGCTCTACAGCGTGTCTACCTGCTCAAGGACAAGGGGGAGTA
CACACTGGTGGTCAAATGGGGGGACGAGCACATCCCAGGCAGCCCCTACCGCGTTGTGGTGCCCTGAGTCTGGGG
CCCGTGCCAGCCGGCAGCCCCCAAGCCTGCCCCGCTACCCAAGCAGCCCCGCCCTCTTCCCCCTCAACCCCGGGCC
AGGCCGCCCTGGCCGCCCCGCTGTCACTGCAGCCGCCCTGCCCTGTGCCGTGCTGCGCTCACCTGCCCTCCCCAG
CCAGCCGCTGACCTCTCGGCTTCACTTGGGCAGAGGGAGCCATTTGGTGGCGCTGCTTGTCTTCTTTGGTTCTG
GGAGGGGTGAGGGATGGGGTCCTGTACACAACCACCCACTAGTTCTCTTCTCCAGCCAAGAGGAATAAAGTTTT
GCTTCCATTC

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[illegible]

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GGGATCCCATCTTTTAACTCTGTGTCAGGAAGTCCTTATCTAGCTGCATATCTTTCATCATATTGGTATATCCTT
TTCTGTGTTTACAGAGATGTCTCTTATATCTAAATCTGTCCAACCTGAGAAGTACCTTATCAAAGTAGCAAATGAG
ACAGCAGTCTTATGCTTCCAGAAAACACCCACAGGCATGTCCCATGTGAGCTGCTGCCATGAAGTGTCAAGTGTGT
GTTGCTTGTGTATTTCAGTTATTGTCCCTGGCTTCCTTACTATGGTGTAAATCATGAAGGAGTGAAACATCATAG
AAACTGTCTAGCACTTCCTTGCCAGTCTTTAGTGATCAGGAACCATAGTTGACAGTTCCAATCAGTAGCTTAAAG
AAAAACCGTGTTTGTCTCTTCTGGAATGGTTAGAAGTGAGGGAGTTTGCCCCGTTCTGTTTGTAGAGTCTCATAG
TTGGACTTTCTAGCATATATGTGTCCATTTCCTTATGCTGTAAAAGCAAGTCTTCCAACCAAACCTCCCATCAGCC
CAATCCCTGATCCCTGATCCCTTCCACCTGCTCTGCTGATGACCCCCCAGCTTCACTTCTGACTCTTCCCCAGG
AAGGGAAGGGGGGTGAGAAGAGAGGGGTGAGTCTCCAGAACTCTTCCTCCAAGGACAGAAGGCTCTGCCCCCAT
AGTGGCCTCGAACTCTGGCACTACCAAAGGACACTTATCCACGAGAGCGCAGCATCCGACCAGGTTGTCACTGA
GAAGATGTTTATTTTGGTCAGTTGGGTTTTTATGTATTATACTTAGTCAAATGTAATGTGGCTTCTGGAATCATT
GTCCAGAGCTGCTTCCCCGTCACCTGGGCGTCATCTGGTCTGGTAAGAGGAGTGCCTGGCCACCAGGCCCCC
TGTACCCCATGACAGTTTCAATCAGGGCCGATGGGGCAGTCGTGGTTGGGAACACAGCATTCAAGCGTCACTTTA
TTTCATTGCGGGCCCCACCTGCAGCTCCCTCAAAGAGGCAGTTGCCAGCCTCTTTCCCTTCCAGTTTATTCAGA
GCTGCCAGTGGGGCTGAGGCTCCTTAGGGTTTTCTCTCTATTTCCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
CAAAGGCATCACGAGTCAGTCGCCTTTCAGCAGGCAGCCTTGCGGTTTATCGCCCTGGCAGGCAGGGGCCCTGC
AGCTCTCATGCTGCCCTGCTTGGGGTCAGGTTGACAGGAGGTTGGAGGGAAAGCCTTAAGCTGCAGGATTCTC
ACCAGCTGTGTCCGGCCAGTTTTGGGGTGTGACCTCAATTTCAATTTTGTCTGTACTTGAACATTATGAAGATG
GGGGCTCTTTTCAAGTGAATTTGTGAACAGCAGAATTGACCGACAGCTTTCAGTACCCATGGGGCTAGGTCATTA
AGGCCACATCCACAGTCTCCCCCACCCTTGTTCCAGTTGTTAGTTACTACCTCCTCTCCTGACAATACTGTATGT
CGTCGAGCTCCCCCAGGTCTACCCCTCCCGGCCCTGCCTGCTGGTGGGCTTGTATAGCCAGTGGGATTGCCGG
TCTTGACAGCTCAGTGAGCTGGAGATACTTGGTTCACAGCCAGGCGCTAGCACAGCTCCCTTCTGTTGATGCTGTA
TTCCCATATCAAAGACACAGGGGACACCCAGAAACGCCACATCCCCAATCCATCAGTGCCAAACTAGCCAACG
GCCCCAGCTTCTCAGCTCGCTGGATGGCGGAAGCTGCTACTCGTGAGCGCCAGTGCAGGTTGCAGACAATCTTCTG
TTGGGTGGCATCATTCCAGGCCCGAAGCATGAACAGTGCACCTGGGACAGGGAGCAGCCCCAAATTGTCACCTGC
TTCTCTGCCAGCTTTTCATTGCTGTGACAGTGATGGCGAAAGAGGGTAATAACCAGACACAACTGCCAAGTTG
GGTGGAGAAAGGAGTTTCTTTAGCTGACAGAATCTCTGAATTTTAAATCACTTAGTAAGCGGCTCAAGCCCAGGA
GGGAGCAGAGGGATACGAGCGGAGTCCCTTGCAGGGGACCATCTGGAATTGGTTTAGCCCAAGTGGAGCCTGACA
GCCAGAACTCTGTGTCCCCGCTTAACCACAGCTCCTTTTCCAGAGCATTCCAGTCAGGCTCTCTGGGCTGACTG
GGCCAGGGGAGGTTACAGGTACCAGTTCTTTAAGAAGATCTTTGGGCATATACATTTTAGCCTGTGTCAATTGCC
CCAAATGGATTCTGTTCAGTTTACACCTGCAGATTCTAGGACCTGTGTCTTAGACTTCAGGGAGTCAGCTGT
TTCTAGAGTTTCTACCATGGAGTGGGTCTGGAGGACCTGCCCGGTGGGGGGCAGAGCCCTGCTCCCTCCGGGT
TTCTTACTCTTCTCTCTGCTCTGACGGGATTTGTTGATTCTCTCCATTTTGGTGTCTTTCTCTTTTAGATATTGT
ATCAATCTTTAGAAAAGGCATAGTCTACTTGTATAAAATCGTTAGGATACTGCCTCCCCAGGGTCTAAAATTAC
ATATTAGAGGGGAAAAGCTGAACACTGAAGTCAGTTCTCAACAATTTAGAAGGAAAACCTAGAAAACATTTGGCA
GAAAATTACATTTGATGTTTTTGAATGAATACGAGCAAGCTTTTACAACAGTGCTGATCTAAAAATACTTAGCA
CTTGGCCTGAGATGCCCTGGTGAGCATTACAGGCAAGGGGAATCTGGAGGTAGCCGACCTGAGGACATGGCTTCTG
AACCTGTCTTTTGGGAGTGGTATGGAAGGTGGAGCGTTTACCAGTGACCTGGAAGGCCAGCACCACCCTCTTC
CCACTCTTCTCATCTTGACAGAGCCTGCCCAGCGCTGACGTGTGAGGAAAACACCCAGGGAACCTAGGAAGGCAC
TTCTGCCTGAGGGGACGCTGCCCTGGCCACTCTGCTCTGCTCGCCTCGGATCAGCTGAGCCTTCTGAGCTGGC
CTCTCATGCTCCCCAAGGCCCCCTGCCCTGCCCTGTGAGGAGCAGAAAGCAGGTTGAGGGCAGTGCAAG
GAGGGAGCACAAACCCCGAGCTCCCGCTCCGGGCTCCGACTTGTGTCACAGGCAGAGCCAGACCCTGGAGGAAATC
CTACCTTTGAATTTCAAGAACATTTGGGGAATTTGGAATCTCTTTGCCCCCAAACCCCATCTGTCTTACCTTT
AATCAGGTCCTGCTCAGCAGTGAGAGCAGATGAGGTGAAAGGCCAAGAGGTTTGGCTCCTGCCACTGATAGCC
CCTCTCCCCGAGTGTTTGTGTGTCAAGTGGCAAAGCTGTCTTCTGGTGACCCTGATTATATCCAGTAACACA
TAGACTGTGCGCATAGGCCTGCTTTGTCTCCTCTATCCTGGGCTTTTGTTTTGCTTTTGTAGTTTGTCTTTAGTT
TTTCTGTCCCTTTTATTTAACGCACCGACTAGACACACAAAGCAGTTGAATTTTATATATATATCTGTATATTG
CACAATTATAAACTCATTTTGGCTTGTGGCTCCACACACACAAAAAAGACCTGTTAAAATTATACCTGTTGCTTT

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ATTACAATATTTCTGATAACCATAGCATAGGACAAGGGAAAAATAAAAAAGAAAAAAAGAAAAAAACGCACAA
ATCTGTCTGCTGGTCACTTCTTCTGTCCAAGCAGATTCTGTGGTCTTTTCTCTGCTTCTTTCAAGGGCTTTCTCTGT
GCCAGGTGAAGGAGGCTCCAGGCAGCACCCAGGTTTTGCACTCTTGTTTCTCCCGTGCTTGTGAAAGAGGTCCCA
AGGTTCTGGGTGCAGGAGCGCTCCCTTGACCTGCTGAAGTCCGGAACGTAGTCGGCACAGCCTGGTCGCTTCCA
CCTCTGGGAGCTGGAGTCCACTGGGGTGGCCTGACTCCCCCAGTCCCCCTCCCGTGACCTGGTCAGGGTGAGCCC
ATGTGGAGTCAGCCTCGCAGGCCTCCCTGCCAGTAGGGTCCGAGTGTGTTTCATCCTTCCCACTCTGTGAGCCT
GGGGGCTGGAGCGGAGACGGGAGGCCTGGCCTGTCTCGGAACCTGTGAGCTGCACCAGGTAGAACGCCAGGGACC
CCAGAAATCATGTGCGTCAGTCCAAGGGTCCCCCTCCAGGAGTAGTGAAGACTCCAGAAATGTCCCTTTCTTCTCC
CCCATCCTACGAGTAATTGCATTGTCTTTGTAATTCTTAATGAGCAATATCTGCTAGAGAGTTTAGCTGTAACA
GTTCTTTTGTATCATCTTTTTTTTAATAATTAGAAACACCAAAAAAATCCAGAACTTGTCTTCCAAGCAGAGA
GCATTATAATCACCAGGGCCAAAAGCTTCCCTCCCTGCTGTCATTGCTTCTTCTGAGGCCGTAATCCAAAAGAAA
AACAGCCATAGGCCCTTTCACTGGCCGGGCTACCCGTGAGCCCTTCGGAGGACCAGGGCTGGGGCAGCCTCTGGG
CCCACATCCGGGGCCAGCTCCGGCGTGTGTTTCAGTGTTAGCAGTGGGTCTATGCTCTTTCCCACCAGCCTGG
GATAGGGGCAGAGGAGGCGAGGAGGCCGTTGCCGCTGATGTTTGGCCGTGAACAGGTGGGTGCTGCGTGCCTCC
ACGTGCGTGTTTCTGACTGACATGAAATCGACGCCCGAGTTAGCCTCACCCGGTGACCTCTAGCCCTGCCCGGA
TGGAGCGGGGCCACCCGGTTCAGTGTTTTCTGGGGAGCTGGACAGTGGAGTGCAAAAGGCTTGCAGAACTTGAAG
CCTGCTCCTTCCCTTGCTACCACGGCCTCCTTTCCGTTTGATTTGTCACTGCTTCAATCAATAACAGCCGCTCCA
GAGTCAGTAGTCAAAGAATATATGACCAAATATCACCAGGACTGTTACTCAATGTGTGCCGAGCCCTTGCCCATG
CTGGGCTCCCGTGATCTGGACACTGTAACGTGTGCTGTGTTTGTCTCCCTTCCCTTCTTTTGCCTTTTAC
TTGTCTTTCTGGGGTTTTTCTGTTTGGGTTTTGGTTTTGGTTTTTATTCTCCTTTTGTGTTCCAAACATGAGGTTT
TCTCTACTGGTCTCTTAACTGTGGTGTGAGGCTTATATTGTGTAATTTTTGGTGGGTGAAAAGGAATTTTGCT
AAGTAAATCTCTTCTGTGTTTGAAGTGAAGTCTGTATTGTAACATATGTTTAAAGTAATTGTTCCAGAGACAAATA
TTTCTAGACACTTTTCTTTACAAACAAAAGCATTCGGAGGGAGGGGGATGGTGACTGAGATGAGAGGGGAGAGC
TGAACAGATGACCCCTGCCCAGATCAGCCAGAAGCCACCCAAAGCAGTGGAGCCAGGAGTCCCACTCCAAGCCA
GCAAGCCGAATAGCTGATGTGTTGCCACTTTCCAAGTCACGTGCAAAACCAGGTTTTGTTCGCCCAGTGGATTCT
TGTTTTGCTTCCCTCCCCCAGATTATTACCACCATCCCGTGCTTTTAAAGGAAAGGCAAGATTGATGTTTCTT
TGAGGGGAGCCAGGAGGGGATGTGTGTGTGCAGAGCTGAAGAGCTGGGGAGAAATGGGGCTGGGCCACCCAAGCA
GGAGGCTGGGACGCTCTGCTGTGGGCACAGGTCAGGCTAATGTTGGCAGATGCAGCTCTTCTTGACAGGCCAGG
TGGTGGGCATTCTCTCCAAGGTGTGCCCGTGGGCATTACTGTTTAAAGACACTTCCGTACATCCCACCCCAT
CCTCCAGGGCTCAACACTGTGACATCTCTATTCCCCACCCTCCCCTTCCCAGGGCAATAAAATGACCATGGAGGG
GGCTTGCACTCTCTTGGCTGTCACCCGATCGCCAGCAAACTTAGATGTGAGAAAACCCCTTCCCATTCATGGC
GAAAACATCTCCTTAGAAAAGCCATTACCCTCATTAGGCATGGTTTTTGGGCTCCCAAACACCTGACAGCCCTC
CCTCTCTGAGAGCGGAGAGTGTCTAGCTGTAGCTGACCATGACATGCCGGGTGCAGCATCTGGAAGAGCTAGGCA
GGTGCTGTGCCCCCTCCTGAGTTGAAGTCTATGCTCCCCTGTGCCAGCCAGAGCCAGGAGCTATGGACAGCATT
GCCAGTAACACAGGCCACCCCTGTGCAGAAGGGAGCTGGCTCCAGCCTGGAAACCTGTCTGAGGTTGGGAGAGGT
CACTTGGGGCACAGGGAGAGGCCGGGACACACTTAGCTGGAGATGTCTCTAAAAGCCCTGTATCGTATTACCTT
CAGTTTTTGTGTTTTGGGACAATTACTTTAGAAAATAAGTAGGTCGTTTTTAAAAACAAAAATTATTGATTGCTTT
TTTGTAGTGTTTCAGAAAAAAGGTTCTTTGTGTATAGCCAAATGACTGAAAGCACTGATATATTTAAAAACAAAA
GCAATTTATTAAGGAAATTTGTACCATTTTCAGTAAACCTGTCTGAATGTACCTGTATACGTTTCAAAAAACCCCC
CCCCCACTGAATCCCTGTAACCTATTTATTATATAAAGAGTTTGCCTTATAAATTT

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FIGURE 6331

MVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSAEPAEAGKAETSEGSGSAPAVP
EASASPKQRRSIIRD RGPMYDDPTLPEGWTRKLKQRKSGRSAGKYDVYLINPQGKAFRSKVELIAYFEKVGDTSL
DPNDFDFTVTGRGSPSRREQPPKKPKSPKAPGTGRGRGRPKGSGTTRPKAATSEGVQVKRVLEKSPGKLLVKMP
FQTSPGGKAEGGGATTSTQVMVIKRPGRKRKAEADPQAIPKKRGRKPGSVVAAAAAEAKKAVKESSIRSVQETV
LPIKKRKTRETVSIEVKEVVKPLLVLSTLGEKSGKGLKTCKSPGRKSKESSPKGRSSSASSPPKKEHHHHHHHSES
PKAPVPLLPPLPPPPPEPESEEDPTSPPEPQDLSSSVCKEEKMPRGGSLESDGCPKEPAKTQPAVATAATAAEKY
KHRGEGERKDIVSSSMRPNREEPVDSRTPVTERVS

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FIGURE 6332

CGCGGACCCGGCCGGCCAGGCCCGCGCCCGCCGGCCCTGAGAGGCCCGGCAGGTCCCGGCCCGGGCGGGCGGC
AGCCATGGCCCGGGGGGGCCGGGGCCGGGGGAGCCCGCAGCCCCGGCGCCAGCACTTCTTGTACGAGGTGCCGCC
CTGGGTCTATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCGACTGGTGCCAGTTTCCCGCCCTGAT
CGTGCGCGACACAGACCGAGCTGCGGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCTGTGGCCCTGGAT
CAACCGCAACGCCCCTGTGGCCGACCTCGTGACATCCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCCTCCCGCCCCGCTTCCGTCCCCAGGCACCACTGCCCGAGGCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCCTGGAGCCCCCGGAAGTTGCCATCCTCAGCCTCCACCTTCTCTCCCCAGCTTTTCCAGG
CTCCCAGACCCATTACAGGGCCTGAGCTCGGCCTGGTTCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCCTTCTTCTACCAAGCCAGGCCAGAGAGCTCAGTGTCCTCTCTGCAGGGAGCCCCGCCCTCTCCGTTTTG
CTGGCCCCCTCTGTGAGATTTCCCGGGGCACCCACAACCTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTACCCCAAACATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGGCTTCTACTGCCTGGTGTACGGCTTCTGCCCCAACGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCACCTCTCTCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCG
GGCAATTCTAGTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGTCCTTCTGGA
TGAGAGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCCGTTTCAGCCGCTTTCGCCGGTCCAGCCCCAGCCA
GAGCAGCATGGTGGCCCCGACACAGACAGTGCGGGGCACCTGGCCTACCTGCCCGAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTGGCTGGTCAGAGGGCTGT
GAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGGAAAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACCTGGACCCAGGCCCGGGCCCTGCCACCTGAGCTGGGCCCTGGGCCCTGGGCCAGCTGGCCTGCTG
CTGCCTGCACCGCCGGGCCAAAAGGAGGCCCTCTATGACCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGGTGCCCGGCATTTGGAGGCCGCCAGCTGCATCCCCCTTCCCCGAGGAGAACTCCTACGTGTC
CAGCACTGGCAGAGCCACAGTGGGGCTGCTCCATGGCAGCCCCCTGGCAGCGCCATCAGGAGCCAGTGGCCAGGC
AGCAGAGCAGCTGCAGAGAGGCCCAACCAGCCCGTGGAGAGTGACGAGAGCCTAGGCGGCCCTCTCTGCTGCCCT
GCGCTCCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGGCTGTCTCTCAGGGGA
CACGGCAGGAGAAATCGAGCTGGGGAGTGGGCCAGGATCCCGGCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTCTCAGAGCCACCGCAGATTATCATCAACCCTGCCCGACAGAAGATGGTCCAGAACTGGC
CCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGCTGCTGTCTGCTCCAGCTCCCTCCAGGCTTGGGCCCTGGAACA
GGACAGCAGGGGGCCGAAGAAAGTGATGAATTTAGAGCTGATGTGTTACCTGGGCAGATCCCCCAAATCCGG
AAGTCAAAGTTCTCATGGTCAGAAGTTCTCATGGTGCACGAGTCTCAGCACTCTGCCGCGAGTGGGGGTGGGGG
CCCATGCCCGCGGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAAC
CCTGCCTCCATGCCAGCATCTGGGGCAAGGAAGGCTGGCATCATCCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGAGGAGAGGGGCTGCTGTGAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGGCGTCTGCAGCCAGGCCTCTGGCAGCAGCTCTTTGCCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCCTAGGGCCCTCTACCTGCTTACAATTTGGAAAAGTGTGGCCGGGTGCGGT
GGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTCTGCCAAAAAATTTTTAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTTATGCTTGGGAGGTCGAGGCTGCAGTGAGTCAT
GATTGTATGACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCTGTTTCAAAAAGAAAAACCCTGGGAAAAGTGA
AGTATGGCTGTAAGTCTCATGGTTTCACTCCTAGCAAGAAGCGAGAATTCTGAGATCCTCCAGAAAGTCGAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTCAGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGCGCCACAGACGAGCTCCGAGCCAGGTGAGGCTTCGGAGGCCACAAGCTCAGCCTCA
GGCCCAGGCACTGATTGTGGCAGAGGGGCCACTACCCAAGGTCTAGCTAGGCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCTGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAAACATTTTCAGGGAAGACAT
GTATCACATGTCTTCAGAAGCAAGTCAGGTTTTCATGTAACCGAGTGTCCTCTTGCCTGTCCAAAAGTAGCCAGG
GCTGTAGCACAGGCTTCACAGTGATTTTGTGTTACGCCGTGAGTCACACTACATGCCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCCTTGAGTAATAAAAACGTATGTTCCCTAAAAA

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FIGURE 6333

MAGGPGPGEPAPGAQHFLYEVPPWVMCRFYKVMDALEPADWCQFAALIVRDQTELRLCERSGQRTASVLWPWIN
RNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSPRKLPSSASTFLSPAFFPGS
QTHSGPELGLVPSPASLWPPPPSPAPSSSTKPGPESSVSLQGARPSPF CWPLCEISRGTHNFSEELKIGEGGFGC
VYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRL
HCQTQACPPLSWPQRDLILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDERLTPKLGDFGLARFSRFAGSSPSQS
SMVARTQTVRGTLAYLPEEYIKTGRLAVDIDTF SFGVVVLETLAQRAVKTHGARTKYLKDLVEEEAEEAGVALR
STQSTLQAGLAADAWAAPIAMQIYKKHLDPRPGPCPELGLGLGQLACCLHRRAKRRPPMTQVYERLEKLQAVV
AGVPGHLEAASCIPPSQENSYSSTGRAHSGAAPWQPLAAPSGASAQAAEQLRGPNQPVESDES LGGLSAAALR
SWHLTPSCPLDPAPLREAGCPQGD TAGESSWGSGPGSRPTAVEGLALGSSASSSSEPPQIIINPARQKMQKLAL
YEDGALDSLQLLSSSSLPGLGLEQDRQGPEESDEFQS

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FIGURE 6334A

GCGCGGTGCCGCCGGGAAAGATCGTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTATCAGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCCGAAGTGCAGTTCCGCT
GGAAGGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACAGTGCAGCCCACTCTGGCT
CCTTACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCCAGGCACCAGGACCA
TCATTGAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCTGTCTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGAGGGGAGCCATTGGTCTGGAGTGCATCGCCGAGGGCT
TCCCACGCCCACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTACCTACCAGAACCACA
ACAAGACCTGCAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGG
GCAGTGGCCGCGATGCGTACTATGTACCGTGGAGGCTGCCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCCGCTGGACTGCCAAGTCCAGGGCAGGCCCCAACCCAGAGGTACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACAGAAAGTACCGGATTCAGCGTGGCGCCCTGATCCTGAGCAACG
TGCAGCCCAAGTACACAATGGTGACCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCTGTGCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCCATGCCAATGGGACCTTGGGCATTGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGCCCCGAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTCAGTGCCAGGCCTCCTTTG
ACCCCTCCTTGACAGCCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTTCATCCACAGCCTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCCGGTGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCTGGAGTCTGTCAGAAGACCACAATGCCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTT
CAGGGAACCAGACCTCTACCACCTCAAGCTGTGCGCCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCCGGGGAGCCAGCCCGGTCTCTGAGACTGTGGTACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGAAGGAAATGAGACCACCAATATGGTTCATACGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCAGGTTTCACTACCGCGTGCAGTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCAAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGGTGGACCTGGCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGCCCGCCAACACCACAGTGTATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCCCCGACGAGTTACCTTCAGCAGCCAGAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTGAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGTCTACCGGCTACGTGCTCTCTACCACCCCTGGATGAGGGGGGCAAGGGGCAACTGTCTTCA
ACCTTCGGGACCCCGAATTCGGACACACAACCTGACCGATCTCAGCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGTGAAACTACAGTGTGCTCTCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGCAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGA
GGATGTTCCGGCACCAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTCATCGGCTTGTGAGTGCCATCATCTCTGCTCCTGCTCCTGCTCCTGCTCATCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAATACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGGTCCCTGGAGAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCAT

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FIGURE 6334B

CGCTCAACGGGGACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTTCAGT
TCAACGAGGATGGTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCT
CAGGGGCCACTTCCCCCATCAACCCTGCCGTGGCCCTAGAATAGTGGAGTCCAGGACAGGAGATGCTGTGCCCCCT
GGCCTTGGGATCCAGGCCCTCCCTCTCCAGCAGGCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTG
CCTCGGATCCCCCTTCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCTGGGCACACGC
TGCTCTGCCCCAGCTTGGGCAGATCTCCACATGCCAGGGGCCTTTGGGTGCTGTTTTGCCAGCCCATTGGGCA
GAGAGGCTGTGGTTTTGGGGGAGAAGAAGTAGGGGTGGCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCC
TGACTGGGGGCAGACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCCAGCCACTCCCCAG
CCAGCCTGGCTGGGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTCTTTGCCATCTCTGCTCCA
ACCGGGATGGGAGCCGGGCAAACCTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCCAGAGTCCCCCACTCC
CAGCATCGCACTCTGGCAGCACCGCCTCTTCCCGCCGCCAGCCCACCCCATGGCCGGCTTTCAGGAGCTCCATA
CACACGCTGCCTTCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACAC
CTCCTCCCCACTGCCCACTGGCCGGC

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FIGURE 6335

MVVALRYVWPLLLCSPCLLIQIP E E Y E G H H V M E P P V I T E Q S P R R L V V F P T D D I S L K C E A S G K P E V Q F R W T R D G V H
FKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFOGIYRCFASNKLGTAMSHEIRLMAEGAPKWPKETV K P V E V E E
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICHAHFPGTRTIIQKEPI
DLRVKATNSMIDRKPRLLFFTNSSSH L V A L Q G Q P L V L E C I A E G F P T P T I K W L R P S G P M P A D R V T Y Q N H N K T L Q L L
KVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPOPEVTWRINGIPVEE
LAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHG L L L A N A Y I Y V V Q L P A K I L T A D N Q T Y M A V Q G S T A Y L L C K A
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRD L Q A N D T G R Y F C L A A N D Q N N V T I M A N L K V K D A T Q I T Q G P R
STIEKKGSRVTFTCQASFDPSLQPSITWRGDGRDLQELGDS DK Y F I E D G R L V I H S L D Y S D Q G N Y S C V A S T E L D V V
ESRAQLLVGSGPGVPRLVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTST
TLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGEGETTNMVI TWKPLRWMDWNAPQVQY
RVQWRPQGRGPWQE Q I V S D P F L V V S N T S T F V P Y E I K V Q A V N S Q G K G P E P Q V T I G Y S G E D Y P Q A I P E L E G I E I L N
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTFTSTPEGVPGHPEALHLECQSN T S L L L R W Q P P L S H N G V L T G Y V L S Y H P L D E G G K G Q L S F N L R D P E L
RTHNLTDLSPHLRYRFQLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVVS W V P K E G Q C N F R F H I L
FKALGEEKGGASLS PQYVSYNQSSYTQWDLQPD TDYEIHLFKERMFRHQMAVKNTGTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDET F G E Y R S L E S D N E E K A F G S S Q P S L N G D I K
PLGSDDSLADYGGSDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

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FIGURE 6336A

GCGCGGTGCCGCCGGGAAAGATGGTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCCGAAGTGCAGTTCCGCT
GGACGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACCAGTCGCCCCACTCTGGCT
CCTTACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGCACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCCAGGCACCGAGGACCA
TCATTGAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCTGCTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGAGGGGCGAGCCATTGGTCTGGAGTGCATCGCCGAGGGCT
TCCCCACGCCACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTACCTACCAGAACCCACA
ACAAGACCTTGAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGG
GCAGTGGCCGCGATGCGTACTATGTACCGTGGAGGCTGCCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCCCTGGACTGCCAAGTCCAGGGCAGGCCCAACCAGAGGTCACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACCAGAAGTACCGGATTACGCGTGGCGCCCTGATCTGAGCAACG
TGCAGCCAGTGACACAATGGTGACCCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCCTATGCCAATGGGACCCTGGGCATTGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCGAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTCAGTGCCAGGCCTCCTTTG
ACCCCTCCTTGACGCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTCACTCACAGCCTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCCGGTGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCTGGAGTCTTGCAGAAGACCACAATGCCC
TGATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTT
CAGGGAACCCAGACCTCTACCACCCTCAAGCTGTGCGCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCCGGGGAGCCAGCCCGGTCTCTGAGACTGTGGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGAAGGAAATGAGACCACCAATATGGTCATCACGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCAGGTTTCACTACCGCGTGCAGTGGCGCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCCAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGGTGGACCTGGCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGCCCGCCAACACCACAGTGTATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCCCCGACGAGTTACCTTCAGCACCCAGAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTGCAGAACACCCAGCTGCTGCTGCGCTGGCAGCCCCACTCAGCC
ACAACGGCGTGTCTACCGGCTACGTGCTCTCTACACCCCTGGATGAGGGGGGCAAGGGGCAACTGTCTTCA
ACCTTCGGGACCCCGAACTTCGGACACACAACCTGACCGATCTCAGCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGTGAAAACTACAGTGTGCTCTCCTGGGTCCCCAAGGAGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGA
GGATGTTCCGGCACCAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTCATCGGCTTGTGAGTGCCATCATCCTCCTGCTCCTGCTCCTGCTCATCCTGCTTCATCA
AGCGCAGCAAGGGCGGCAATACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCATCGCTCAACGGG

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FIGURE 6336B

ACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTTCAGTTCAACGAGGATG
GTTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCTCAGGGGCCACTT
CCCCATCAACCCTGCCGTGGCCCTAGAATAGTGGAGTCCAGGACAGGAGATGCTGTGCCCTGGCCTTGGGATC
CAGGCCCCCTCCCTCTCCAGCAGGCCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTGCCTCGGATCCCC
TTCCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCTGGGCACACGCTGCTCTGCCCCA
GCTTGGGCAGATCTCCCATGCCCAGGGGCCCTTTGGGTGCTGTTTTGCCAGCCCATTGAGGCAGAGAGGCTGTGG
TTTGGGGGAGAAGAAGTAGGGGTGGCCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCCTGACTGGGGGCA
GACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCCAGCCACTCCCCAGCCAGCCTGGCTG
GGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTTCTTTGCCATCTCTGCTCCAACCGGGATGGGA
GCCGGGCAAACTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCCAGAGTCCCCCCTCCAGCATCGCACT
CTGGCAGCACCGCCTCTTCCCGCCGCCAGCCACCCCATGGCCGGCTTTCAGGAGCTCCATACACACGCTGCCT
TCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACACCTCCTCCCACTG
CCCACTGGCCGGC

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FIGURE 6337

MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFPTDDISLKCEASGKPEVQFRWTRDGVH
FKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFGIYRCFASNKLGTA MSHEIRLMAEGAPKWPKETVKPVEVEE
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICHAHFPGTRTIIQKEPI
DLRVKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPSGMPADRVTYQNHNKTLQLL
KVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPOPEVTWRINGIPVEE
LAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHGLLLANAYIYVVQLPAKILTADNQTYMAVQGSTAYLLCKA
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRDLOQANDTGRYFCLAANDQNNVTIMANLKVKDATQITQGPR
STIEKKGSRVTFTCQASFDPSLQPSITWRGDGRDLQELGDS DKYFIEDGRLVIHSLDYS DQGNYS CVASTELDVV
ESRAQLLVVGGSPGPVPRVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTST
TLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGE GNETTNMVITWKPLRWMDWNAPQVQY
RVQWRPQGTRGPWQEQIVSDPFLVVSNTSTFVPYEIKVQAVNSQKGPEPQVTIGYSGEDYPQAIPELEGIEILN
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTTFSTPEGVPGHPEALHLECSNTSLLLWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDPEL
RTHNLTDLSPHLR YRFQLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVVS WVPKEGQC NFRFHIL
FKALGEEKGGASLSPQYVSYNQSSYTQWDLQPD TDYEIHLFKERMF RHQMAVKTN GTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYSDNEEKAFGSSQPSLNGDIKPLGS
DDSLADYGGSDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

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FIGURE 6338

TCGTGTTTCATGGGAGCTCGTTTTCTTTTCCTCTAGGCAGAGAAGAGGCGATGGCGGCGATGGCATCTCTCGGCGC
CCTGGCGCTGCTCCTGCTGTCCAGCCTCTCCCGCTGCTCAGCCGAGGCCTGCCTGGAGCCCCAGATCACCCCTTC
CTACTACACCACCTTCTGACGCTGTCAATTCCTGAGACCGTCTTCATTGTGGAGATCTCCCTGACATGCAAGAA
CAGGGTCCAGAACATGGCTCTCTATGCTGACGTCGGTGGAAAAACAATTCCTGTCACTCGAGGCCAGGATGTGGG
GCGTTATCAGGTGTCTGGAGCCTGGACCACAAGAGCGCCACGCAGGCACCTATGAGGTTAGATTCTTCGACGA
GGAGTCCTACAGCCTCCTCAGGAAGGCTCAGAGGAATAACGAGGACATTTCCATCATCCCGCCTCTGTTTACAGT
CAGCGTGGACCATCGGGGCACTTGGAACGGGCCCTGGGTGTCCACTGAGGTGCTGGCTGCGGGCGATCGGCCTTGT
GATCTACTACTTGGCCTTCAGTGCGAAGAGCCACATCCAGGCCTGAGGGCGGCACCCAGCCCTGCCCTTGCTTC
CTTCAATAAACATCACAGGACCTGGGACTGCACAGGAAAAAA

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FIGURE 6339

MAAMASLGALALLLLSSLSRCSAEACLEPQITPSYYTTSDAVISTETV FIVEISLTCKNRVQNMALYADVGGKQF
PVTRGQDVGRYQVSWSLDHKSAHAGTYEVRFFDEESYSLLRKAQRNNEDISIIPPLFTVSDHRGTWNGPWVSTE
VLAAAIGLVIYYLAFSAKSHIQA

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FIGURE 6340

GGGCGGGGGTTCGCGGTCCCCCTCAACATGGCGGCAGCGGTGCTCTAGGCGCCGGAAGGGGGCGTGAATCGGTG
CGACCGCGCGCGTTCGCGAGTACCGGGTCCGCGCCTGTCCCCGAAACTTCGCACCCCGTCGAACTCTCGCGAGAGC
GTATCTGCGTGTCTGGGACGTGCGGAGGCTCTCACTTTCCGTCATGGCGCTGAAGGTAGCGACCGTCGCCGGCAGC
GCCGCGAAGGCGGTGCTCGGGCCAGCCCTTCTCTGCCGTCCCTGGGAGGTTCTAGGCGCCACGAGGTCCCTCG
AGGAACATCTTTTCAGAACAAACAATTCTCCGTCCGCTAAGTATGGCGGGCGGCACACGGTGACCATGATCCCA
GGGGATGGCATCGGGCCAGAGCTCATGCTGCATGTCAAGTCCGTCCTCAGGCACGCATGTGTACCAAGTGGACTTT
GAAGAGGTGCACGTGAGTTCCAATGCTGATGAAGAGGACATTCGCAATGCCATCATGGCCATCCGCCGGAACCGC
GTGGCCCTGAAGGGCAACATCGAAACCAACCATAACCTGCCACCGTCGCACAAATCTCGAAACAACATCCTTCGC
ACCAGCCTGGACCTCTATGCCAACGTTCATCCACTGTAAGAGCCTTCCAGGCGTGGTGACCCGGCACAAGGACATA
GACATCCTCATTGTCCGGGAGAACACAGAGGGCGAGTACAGCAGCCTGGAGCATGAGAGTGTGGCGGGAGTGGTG
GAGAGCCTGAAGATCATCACCAAGGCCAAGTCCCTGCGCATTGCCGAGTATGCCTTCAAGCTGGCGCAGGAGAGC
GGGCGCAAGAAAGTGACGGCCGTGCACAAGGCCAACATCATGAAACTGGGCGATGGGCTTTTCTCCAGTGCTGC
AGGGAGGTGGCAGCCCGCTACCCTCAGATCACCTTCGAGAACATGATTGTGGATAACACCACCATGCAGCTGGTG
TCCCGGCCCCAGCAGTTTGATGTCTGTTGATGCCCAATCTCTATGGCAACATCGTCAACAATGTCTGCGCGGGA
CTGGTTCGGGGGGCCAGGCCTTGTGGCTGGGGCCAACTATGGCCATGTGTACGCGGTGTTTGAAACAGCTACGAGG
AACACCGGCAAGAGTATCGCCAATAAGAACATCGCCAACCCACGGCCACCCTGCTGGCCAGCTGCATGATGCTG
GACCACCTCAAGCTGCACTCCTATGCCACCTCCATCCGTAAGGCTGTCTGGCATCCATGGACAATGAGAATATG
CACACTCCGGACATCGGGGGCCAGGGCACAACATCTGAAGCCATCCAGGACGTCATCCGCCACATCCGCGTCATC
AACGGCCGGGCGTGGAGGCCTAGGCTGGCCCTAGGACCTTCTTGGTTTGCTCCTTGGATTCCCCTTCCACTCC
AGCACCCAGCCAGCCTGGTACGCAGATCCCAGAATAAAGCACCTTCTCCCTAGAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 6341

MALKVATVAGSAAKAVLGPALLCRPWEVLGAHEVPSRNIFSEQTIPPSAKYGGRRHTVTMIPGDGIGPELMLHVKS
VFRHACVPVDFEEVHVSSNADEEDIRNAIMAIRRNRVALKGNIETNHNLPSSHKSRNNILRTSLDLYANVIHCKS
LPGVVTRHKDIDILIVRENTEGEYSSLEHESVAGVVESLKIIITKAKSLRIA EYAFKLAQESGRKKVTAVHKANIM
KLG DGLFLQCCREVAARYPQITFENMIVDNTTMQLVSRPQQFDVMVMPNLYGNIVNNVCAGLVGGPGLVAGANYG
HVVAVFETATRNTGKSIANKNIANPTATLLASCMMLDHLKLHSYATSIRKAVLASMDNENMHTPDIGGQGTSEA
IQDVIRHIRVINGRAVEA

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FIGURE 6342A

GCGGACGGACGCGCCTGGTGCCCCGGGGAGGGGCGCCACCGGGGGAGGAGGAGGAGGAGAAGGTGGAGAGGAAGA
GACGCCCCCTCTGCCCCGAGACCTCTCAAGGCCCTGACCTCAGGGGCCAGGGCACTGACAGGACAGGAGAGCCAAG
TTCTTCCACTTGGGCTGCCCGAAGAGGCCGCGACCCCTGGAGGGCCCTGAGCCACCGCACAGGGGGCCCCAGCAC
CACCCCGGGGGCCTAAAGCGACAGTCTCAGGGGCCATCGCAAGGTTTCCAGTTGCCTAGACAACAGGCCAGGGT
CAGAGCAACAATCCTTCCAGCCACCTGCCTCAACTGCTGCCCCAGGCACAGCCCCAGTCCCTACGCGGCAGCCA
GCCCCAGGTGACATGCCGCTGCTCTCCAGGCCCCGGCCCTGGCGGGGGAACACGCTGAAGCGCACGGCCGTGCTCC
TGGCCCTCGCGGCCTATGGAGCCCCAAAGTCTACCCCTTGGTGCGCCAGTGCTGGCCCCGGCCAGGGGTCTTC
AGGCGCCCCGCGGGGAGCCACGCAGGAGGCCCTCCGGGGTTCGCGGCGGCCAAAGCTGGCATGAACCGGGTATTCC
TGCAGCGGCTCCTGTGGCTCCTGCGGCTGCTGTTCCCCCGGGTCTGTGCGGGGAGACGGGGCTGCTGGCCCTGC
ACTCGGCCGCTTGGTGAGCCGCACCTTCTGTGCGGTGTATGTGGCCCGCCTGGACGGAAGGCTGGCCCCGTGCA
TCGTCCGCAAGGACCCGCGGCTTTTGGCTGGCAGCTGCTGCAGTGGCTCCTCATCGCCCTCCCTGCTACCTTCG
TCAACAGTGCCATCCGTTACCTGGAGGGCCAATGGCCCTGTGTTCCGCAGCCGTCTGGTGGCCCCACGCCTACC
GCCTCTACTTCTCCAGCAGACCTACTACCGGGTCAGCAACATGGACGGGCGGCTTCGCAACCCTGACCAGTCTC
TGACGGAGGACGTGGTGGCCTTTGCGGCCTCTGTGGCCACCTCTACTCCAACCTGACCAAGCCACTCCTGGACG
TGGCTGTGACTTCTACACCTGCTTCGGGCGGCCCGCTCCCGTGGAGCCGGCACAGCCTGGCCCTCGGCCATCG
CCGGCCTCGTGGTGTTCCTACGGCCAACGTGCTGCGGGCCTTCTCGCCCAAGTTCGGGGAGCTGGTGGCAGAGG
AGGCGCGCGGAAGGGGGAGCTGCGCTACATGCACTCGCGTGTGGTGGCCAACCTCGGAGGAGATCGCCTTCTATG
GGGGCCATGAGGTGGAGCTGGCCCTGCTACAGCGCTCCTACCAGGACCTGGCCTCGCAGATCAACCTCATCCTTC
TGGAACGCCTGTGGTATGTTATGCTGGAGCAGTTCCTCATGAAGTATGTGTGGAGCGCCTCGGGCCTGCTCATGG
TGGCTGTCCCCATCATCACTGCCACTGGCTACTCAGAGTCAGATGCAGAGGCCGTGAAGAAGGCAGCCTTGGA
AGAAGGAGGAGGAGCTGGTGAGCGAGCGCACAGAAGCCTTCACTATTGCCCGCAACCTCCTGACAGCGGCTGCAG
ATGCCATTGAGCGGATCATGTGTCGTACAAGGAGGTGACGGAGCTGGCTGGCTACACAGCCCGGGTGCACGAGA
TGTTCCAGGTATTTGAAGATGTTACAGCGCTGTCACTTCAAGAGGCCAGGGAGCTAGAGGACGCTCAGGCGGGGT
CTGGGACCATAGGCCGGTCTGGTGTCCGTGTGGAGGGCCCCCTGAAGATCCGAGGCCAGGTGGTGGATGTGGAAC
AGGGGATCATCTGCGAGAACATCCCCATCGTACGCCCTCAGGAGAGGTGGTGGTGGCCAGCCTCAACATCAGGG
TGGAGGAAGGCATGCATCTGCTCATCAGGCCCAATGGCTGCGGCAAGAGCTCCCTGTTCCGGATCCTGGGTG
GGCTCTGGGCCAGTACGGTGGTGTGCTACAAAGCCCCACCCAGCGCATGTTCTACATCCCGCAGAGGCCCT
ACATGTCTGTGGGCTCCCTGCGTGACCAAGTGTGCTACCCGAGCTCAGTGGAGGACATGCAAAAGGGGTACT
CGGAGCAGGACCTGGAAGCCATCCTGGACGTGCTGCACCTGCACCACATCCTGCAGCGGGAGGGAGGTGGGAGG
CTATGTGTGACTGGAAGGACGTCTGTGCGGGTGGCGAGAAGCAGAGAATCGGCATGGCCCGCATGTTCTACCACA
GGCCCAAGTACGCCCTCCTGGATGAATGCACCAGCGCCGTGAGCATCGACGTGGAAGGCAAGATCTTCCAGGCGG
CCAAGGACGCGGGCATTGCCCTGCTCTCCATCACCCACCGGCCCTCCCTGTGGAATACCACACACACTTGCTAC
AGTTGATGGGGAGGGCGGCTGGAAGTTCGAGAAGCTGGACTCAGCTGCCCGCCTGAGCCTGACGGAGGAGAAGC
AGCGGCTGGAGCAGCAGCTGGCGGGCATTCCCAAGATGCAGCGGCGCCTCCAGGAGCTCTGCCAGATCCTGGGCG
AGGCCGTGGCCCCAGCGCATGTGCCGGCACCTAGCCCGCAAGGCCCTGGTGGCCTCCAGGGTGCCTCCACCTGAC
ACAACCGTCCCCGGCCCCCTGCCCGCCCCCAAGCTCGGATCACATGAAGGAGACAGCAGCACCACCCATGCACG
CACCCCGCCCCCTGCATGCCTGGCCCCCTCCTCCTAGAAAACCTTCCCGCCCTCGGGAAAGTAGATGTGGAGGGTG
GCGCCCTGCGTAACCTCGCCCTGTCCCTCCCACTCCCTGGGGGCGCTGTTCCACAGTGACTGGGCCCTGTCCAG
GGCAGTGAGTCTCTACTTTGCTCCGCGGAGGAAGCTGGGGTACAAGGGGGCCAGTGCTGGCCACACAGCAGCGC
AGCCGAGCCCCAGGAGCCCGTCAGGCCACAGCCCCTGGCACTGCAGGTGGCCTCCCTCCAGAGACTCGAGTCCCC
ATGATTCCCTCCTCGTCAGTCTCTCAAAGACCCCATGGTCCATCCCCTGAGGGTGGTCAGCCAAGGTCCCCGTTT
CGTGGGATGCCATAAAAGCCGCCAGTGGGACCCACAGTCACACAGAGCGCCTCACCTGCATCCTCTCCCCACA
AGAGCCCCAAAGATCCACGGGAGAGGGGAGAGGGACGCACAGCACTGCCTGCCAAGCGAGAATGCAGGCCCCGC
CCCCCTCGGCCCTCACCACTCTTTCTACAGCCTAATTTATTGGATTCCCTATTCTAGCCATCTCCGTGGCCAA
TGTGACTACCGTGCCAGCAGCGGGGGCGGCCAGCCTCTGAGTCCCGTGGGGCCCCGGCTCCACCGGTGCCAAA
CCCAGCCCCTGCGGCCGTCACCCGCCAGCCTACACTGCCAGCGCCACCGGGGCACACGGGCCCTGTGCTTGCCA
GCCAGGAGTGCAGACCATGTTCCAGCTCAGTGCCAAAGAGGGGTACCAGGGGGAGCTGTCTGCGGAGCCAG
CGCTGCCCGAGAGAGACCCACCGCCACCGTGTGCCTTTCCCGGGCCCTCAGCCCTCGGGCCGGGCACCA

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FIGURE 6342B

CAGTCCCCCAGTAAA

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FIGURE 6343

MPVLSRPRPWGNTLKR TAVLLALAAYGAHKVYPLVRQCLAPARGLQAPAGEPTQEASGVAAAKAGMNRVFLQRL
LWLLRLLFPRLVLCRETGLLALHSAALVSR TFLSVYVARLDGRLARCIVRKDPRAFGWQLLQWLLIALPATFVN
SAIRYLEGQLALSFRSRLVAHAYRLYFSQQTYYRVSNMDGRLRNPDQSLTEDVVAFAASVAHLYSNLTKPLLDVAVT
SYTLLRAARSRGAGTAWPSAIAGLVVFLTANVLR AFSPKFGELVAEEARRKGELRYMHSRVVANSEEIAFYGGHE
VELALLQRSYQDLASQINLILLERLWYVMLEQFILMYVWSASGLLMVAVP IITATGYSESDAEAVKKAAL
EKKEEELVSETEAFTIARNLLTAAADAIERIMSSYKEVTELAGYTARVHEMFQVFEDVQORCHFKRPRELEDAQAGSGT
IGRSGVRVEGPLKIRGQVVDVEQGI ICENIPIVTPSGEVVVASLNIRVEEGMHLLITGPNGCGKSSLFRILGGLWP
TYGGVLYKPPPQRMFYIPQRPYMSVGSRLDQVIYPDSVEDMQRKGYSEQDLEAILDVVHLHHILQREGGWEAMCD
WKDVLSGGGEKQRIGMARMFYHRPKYALLDECTSAVSIDVEGKIFQAAKDAGIALLSITHRPSLWKYH
THLLQFDGEGGWKFEKLDSAARLSLTEEKQRLEQQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGP
GGLQGAST

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FIGURE 6344

TTTCCGGCCGCGGTATGAGGGGCGGGGCGGGGCTGCTGTGGGAGAGTTTCGGTTGCTGCGGCGGGGCTGCACGT
TGACTGTGGGAAACTCGGAAACAAGCTCACATCTTCCTGTGGGAAACCTTCTAGCAACAGGATGAGTCTGCAGTG
GACTGCAGTTGCCACCTTCCTCTATGCGGAGGTCTTTGTTGTGTTGCTTCTCTGCATTCCCTTCATTTCTCCTAA
AAGATGGCAGAAGATTTTCAAGTCCCGGCTGGTGGAGTTGTTAGTGTCTATGGCAACACCTTCTTTGTGGTTCT
CATTGTTCATCCTTGIGCTGTTGGTCATCGATGCCGTGCGCGAAATTCGGAAGTATGATGATGTGACGGAAAAGGT
GAACCTCCAGAACAATCCCGGGGCGCATGGAGCACTTCCACATGAAGCTTTTCCGTGCCCAGAGGAATCTCTACAT
TGCTGGCTTTTCTTGCTGCTGTCCTTCCTGCTTAGACGCCTGGTGAATCTCATTTCGAGCAGGCCACGCTGCT
GGCCTCCAATGAAGCCTTTAAAAAGCAGGCGGAGAGTGCTAGTGAGGCGGCCAAGAAGTACATGGAGGAGAATGA
CCAGCTCAAGAAGGGAGCTGCTGTTGACGGAGGCAAGTTGGATGTGCGGGAATGCTGAGGTGAAGTTGGAGGAAGA
GAACAGGAGCCTGAAGGCTGACCTGCAGAAGCTAAAGGACGAGCTGGCCAGCACTAAGCAAAAAGTACAGAGAAAGC
TGAAAACAGGTTCTGGCCATGCGGAAGCAGTCTGAGGGCCTCACCAAGGAGTACGACCGCTTGCTGGAGGAGCA
CGCAAAGCTGCAGGCTGCAGTAGATGGTCCCATGGACAAGAAGGAAGAGTAAGGGCCTCCTTCCTCCCCTGCCTG
CAGCTGGCTTCCACCTGGCACGTGCCTGCTGCTTCCTGAGAGCCCGGCTCTCCCTCCAGTACTTCTGTTTGTGC
CCTTCTGCTTCCCCCATTCCCTTCCACAGCTCATAGCTCGTCATCTCGGCCCTTGTCACACTCTCCAAGCACAT
TACAGGGGACCTGATTGCTACACGTTTCAAGATGCGTTTGTGTCATCCTGCTTGGCCTGGCCAGGCCTGGCACAG
CCTTGGCTTCCACGCCTGAGCGTGGAGAGCACGAGTTAGTTGTAGTCCGGCTTGCGGTGGGGCTGACTTCCTGTT
GGTTTGAGCCCCTTTTGTGTTTGGCCCTCTGGGTGTTTCTTTGGTCCCGCAGGAGGGTGGGTGGAACAGGTGGAC
TGGAGTTTCTCTTGAGGGCAATAAAAGTTTTCATGGTGG

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FIGURE 6345

MSLQWTAVATFLYAEVFVLLLCIPFISPKRWQKIFKSRLVELLVSYGNTFFVVLIVILVLLVIDAVREIRKYDD
VTEKVNQLQNNPGAMEHFHMKLFRAQRNLYIAGFSLLL SFLLRRLVTLISQQATLLASNEAFKKQAESASEAAKKY
MEENDQLKKGAAVDGGKLDVGNAEVKLEENRSLKADLQKLKDELASTKQKLEKAENQVLAMRKQSEGLTKEYDR
LLEEHAQLQAAVDGPMDKKEE

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FIGURE 6346

GCTTCTGCGCGCCGGGGCCGCTCTCCTTCCGCCGGTGCCGCGGCGCCTCATGGAAGCCCCGGAGGCGGCGGAGG
GGGGCCTGCAGCGCGGGGCCCCGAGGGCAGCCGGCGCCCCGAAGCCAGGGTGCACTTCCGAGTGCGGAGGTTTCATC
ATGGAGGCAGGTGTCAAGCTAGGGATGCGGTCCATTCCCATTTGCCACTGCTTGCACCATTACCATAAGTTCTTT
TGCGAGACCAACCTGGACGCCATGACCCCTTACCTGATTGCCATGTCTTCAATTTACTTGGCCGGCAAAGTGGAA
GAGCAGCACCTGCGGACTCGTGACATCATCAATGTGTCCAACAGGTACTTTAACCCAAGCGGTGAGCCCCCTGGAA
TTGGACTCCCGCTTCTGGGAACTCCGGGACAGCATCGTGACGTGTGAGCTTCTCATGCTGAGAGTTCTGCGCTTC
CAGGTCTCCTTCCAGCATCCACACAAGTACCTGCTCCACTACCTGGTTTCCCTCCAGAACTGGCTGAACCGCCAC
AGCTGGCAGCGGACCCCTGTTGCCGTCACCGCCTGGGCCCTGCTGCGGGACAGCTACCATGGGGCGCTGTGCCTC
CGCTTCCAGGCCCAGCACATCGCCGTGGCGGTGCTCTACCTGGCCCTGCAGGTCTACGGAGTTGAGGTGCCCCGCC
GAGGTGAGGCTGAGAAGCCGTGGTGGCAGGTGTTTAAATGACGACCTTACCAAGCCAATCATTGATAATATTGTG
TCTGATCTCATTGAGATTTATACCATGGACACAGAGATCCCCTAAGGTCCTGGCCCAGGCCTGCCCAAAGAGAAG
CCACATCTGCGTTTGTCTTTGAGAGGACTTTGACTACAATACAGGCATGACATCAATGAAAGGAAAAGTCATGAA
ATCGATGAGACTGAATCCCTACGGATTTCCTAAAAGCCAGATTTGTAGGGAGAATGAATGTGCAACGTGGCTGAA
ATCTATTTTGTGTAATAAAAAGGTGATACAAGTC

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FIGURE 6347

MEAGVKLGMRSIPIATACTIYHKFFCETNLDAYDPYLIAMSSIYLAGKVEEQHLRTRDIINVSNNRYFNPSGEPL
LDSRFWELRDSIVQCELLMLRVLRQVVSFQHPHKYLLHYLVSLQNWLNHRHSWQRTPVAVTAWALLRDSYHGALCL
RFQAQHIHAVVLYLALQVYGVEVPAEVEAEKPWWQVFNDLTKPIIDNIVSDLIQIYTMDTEIP

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[illegible]

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FIGURE 6349

TTTAGGGAGAAGAAAGCAACCCCTTAAAAATAGAGGAAAATGAAGCTGCTTGGATTACCCTGTTGAAGTTCATCTCT
GCCTGTGCCATGCATGAAAAAATACTGGCAAAGTCTTCACTTACATGAGTGTTAGACTCCATGTTCCCAGTGGGT
CTCGGGGTTTCAGAACTGAGTGCTCTCATCCAAGCAATAGGAGCGTCGACCTCAGGAAAGCCCAAGTGTGTTGTGT
GTATTTTGAGGAGTGGGTTATCTGTTGCACTGAGCCTCTCTGTGTATTTTCTTCTTCTTTTCAGCAGAACAAGGG
GAGGTGGACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTTCAGCGTACTCTTTTAGAGAAATAGAAG
ATTGTCGGCAGAAACAGCCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAAGGACACC
TGCTTGAGAGCAGAGATGGAGGCCTTCTGTTTAC

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FIGURE 6350

CAGAGTTTCGCCATGGCCCCGGGGCCCCAAGAAGCACTTAAAGCGTGTTGCAGCGCCGAAGCATTGGATGCTTGAC
AAACTAACGGGTGTATTTGCACCTCGTCCATCGACAGGTCCCCACAAGCTGAGGGAATGTCTTCCTCTGATCGTC
TTCCTCAGGAATAGACTCAAGTATGCGTTGACTGGAGATGAGGTAAAGAAGATATGTATGCAACGTTTCATCAA
ATTGATGGCAAGGTTTCGAGTGGATGTCACATAACCCTGCTGGATTTCATGGATGTCATCAGCATCGAGAAGACAGGT
GAACATTTCCGCCCTGGTCTATGACACCAAGGGCCGTTTTGCTGTTTCACCGCATCACAGTGGAAGAGGGCAAAGTAC
AAGTTGTGCAAAGTGAGGAAGATTACTGTGGGAGTGAAGGGAATCCCTCACCTGGTGACTCATGATGCTCGAACC
ATCCGCTACCCAGATCCTGTTCATCAAGGTGAACGATACTGTGCAGATTGATTTAGGGACTGGCAAGATAATCAAC
TTTATCAAATTTGATACAGGCAATTTGTGTATGGTGATTGGTGGAGCCAACCTCGGTCGTGTTGGTGTGATCACC
AACAGGGAAAGACATCCTGGTTCCTTTGATGTGGTGATGTGAAGGATGCCAATGGCAACAGCTTTGCCACGAGG
CTTTCCAACATTTTGTTCATTGGCAATGGCAATAAACCTTGATTTCCTGCCCAGGGGAAAGGGCATTGACTT
ACTGTTGCTGAAGAGAGAGATAAGAGGCTGGCCACCAAACAGAGCAGTGGCTAAATTGCAGTAGCAGCATATCTT
TTTTTCTTTGCACAAATAAACAGTGAATTCTCGTTT

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FIGURE 6351

CTAGTTTCTCAGGATCATGTCTGTGAGCCAGGATTCTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGA
ATGCGTCATTGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCG
TGACATCTATGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTA
TAATGTAATCGCTCAAGCCCGATCTGGGACTGGGAAAATGGCCACATTTGCCATATCGATTCTGCAGCAGATTGA
ATTAGATCTAAAAGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGT
CATGGCACTAGTAGACTACATGGGTGCCTCCTGTGTCATGCCTGTGTGTCAGGGGCACCAATATGCGTGCTGAGGTGCA
GAAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTAGCCGTGTGTTTGATATGCTTAACCAGAGATA
CCTGTCTCCCAAATACATCAAGATGTTTGTACTGGATAAAGCTGATGAAATGTTAAGCCGTGGATTCAAGGACCA
GATCTATGACATATTTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTGCTGCTACAATGCCTTCTGATAT
GCTTGAGGTGATCAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGG
CATCCGCCAATTCTACATCAACGTGGAACAAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCT
GACCATCACCCAGGAAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACTGAGAAGATGCATGCTCG
AGATTTCACTGTCTCCGCCATGCATGGAGATATGGACCAAAAGGAGCAAGACGTGATCATGAGGGAGTTTCATTC
TGGCTCTAGCAGAGTTTTGATTACAACTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
CAACTATGACCTTCCCACCAACAGGGAAAATATATCCACAGAATCAGTCGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCAAGACATTGAGATCTTCTACAACACCTCCAT
TGAGGAAATGCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCGCCAGCCCCAGCCAGGGCTCAATC
TCGGGGGTGCTGAGGAGCAGCAGGAGAGGGGAGTGAAGGGAGCCAAGGGATAGACTTGTCAATTTTTTTTCTTTGA
ATAAATGTCACTTTTTTGAGGCCAAAA

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FIGURE 6352

ACTTCTGTTCCAAAGGCTGGGAAGAACTAAGCTGCCCCAGCTCCTCCCATTTCTTGGGCAGGGCTCTTTCTGTT
GTGTGTTCCCTCCAGGGCCTGTCTGTACCGAGCTCTGTCTGTTCAGCCTTCATCCTTCTGGCTGTTGCTTTTC
CTCTTAAGGGCCTTAGAACTCTTGCTCTTCTGGGCTGTGGGGGAATGAGTGTTCCTTGCCATTTGCCAGCCTAAT
GCGCATGGTTTTCTGCCCTGATAACAGGAGTGAGTGAGCCCCCTCAGACCTGCACTCTGGGTGCTCCTGCTTTCA
AAGTTTCTTAATAGTGAATGCTTTAAAATTAAAGTCATCACAAAATGGAAGTTTTCCCAGGGTGGAAAACAAGAG
GAAGTGCTGCTGTAATTGGGAGCACAAAGGGGCCTCCAAAAAGGAGCCCCACCTCAGCATCACTGCCTTATTGT
GGCCTCCGTGGGGTGAGTGGGGTTCTCTCCTCCCTCCCTCCCTCCTCCTGGGGTGGGAGGGCGCTCCTATTCCCA
TCTTTGTGTTCCCTGGAGGCAGGTATCACAAACATTTGTGAATTGCTTTAGGTGCAGGGACACCACCCACTCAG
GACTTTTCCCCATCATCCCTTCCATTGCCACACCCTAGATCCAGCCTCAGGAACATAAAGTTTTGAGAAAAGCA
GGCGGTAGAGCAGCAGCTTGGTGCTCTCAGCGGTGGCTGGCTGGCATTTTTCTCTAGCATTGTGGTGCCACCTTC
CCTCCTTGTCCCAAGGTTATAAGGCCTTGTCTTTCTCTTGGAAATCATAAAGTGAACAGAGTCCCCAGAAGCTCG
TGTGGCCATTTCCGCCAGCATCACTCCCGGTGCTGTGGGGTCCCGGTGTACCTAATGGGAGAACGATCCCATG
TGCTAGCCAGAAATATACCGTCTCTTGAAGGAAAGCAGGAGCTCAGACTTTTAGAGCCAGCTGTGGCTTCGGACC
CAAGGCCTGACCTAGGCTGCTATCCTAATATTGCAGAAGGGGCCTCTCTTCCAAGCCCCACCCTAAGGGTTAGCC
CTTGGCCAAATCTTTTGCCATCTGGTCCCAGCTAGGCTTTCTGACTAAATAAGCAATAAGAGGGTCTAAGCTGA
CTGAGTTGCAAGGACCCTTTCCACCCTCCCTTGGATCTCCATGTTTTTCCAGATGGAGGAAGAGCATGTGCCACC
CCCTGTCTTAACAGGCTTGTCCAAGTGCTTGGTGTTGGGACCCAAGACCAAGCCAGGATGGCTTGGTGGGAGTG
TCCCTGTCTGCATCTGCATGAAGCCCCTGCTTTCTAGGCCTCACTCCCATCAGAACCCTGCCTGCCACCTGCAAC
TCCCCACAGCAATGCCATTCCCCTTGGCCCAGAGAAGCTACTCAGCCAAACCTAGCCAGGGTCTGTTTATGTA
GACCAGAGCCAGCCTAGTCATTATTGTCTGTGGGTTTCCAGTTTCACTGTGTGTTAGGGCGAGGGATGATTGTA
AAATTTGTCTCTCAAAGGAATCAGGCCAGACTCAATTTTGAGGGCAAGACAGGGAGGAGGCGCTTCATCCCAG
ACTCTCTTCTAGGGCTTCCCACCATCAGCCCCCTCCCACTTGAGACTGGTCTTCAGGAGGCAATAGGCCACCATGC
CTGGTCAGCATCAATTCAGCCATGCCAGGAATCTGCCTACCTGCCAGGTTCAAGTTCTTTAAGGTGCCTCTTAA
GGGACACACTGTGTCTCTCTGATTGGGCTTCTAAATCAAAGCCTGATGTTTCGTGTCCCTCTCATAGGGGGAGCT
TTGGATACAGGACCAGTTTGGAAAAGGGTCAGGTAAGGGTTTCCACTCTGCACATTGTAGAGGGGACGCTCGGTA
GCCCATGGGTCCCTTACTAAAGAGGTTGAGTGAATTTGCCTTCAGTTAACCTGGGACCTTCTGTTTAGCTTCCCT
CTGCTTCCCAAAGATTTTAAGCATTTTGTAAATGTATAAACTCACCTCTGGCAACAGTGGCCAGATGCTGCTTT
GTGCTATGTAAAGGCAGTCTTTCCCTGGGAAATGGATGCTATTCTATTCTGCTGCCCCCTACCTGTTCTGAGGCT
TCATTTAGAAAAGAAATACCCTCAGAAGGCTGTCTGGCACCCAGTGTCTAGCCAGGCCAAATATATGAGAAAGG
TAAGTCCATTTTCCCTTCAGGTCTCAGTGGATGACTTAACCACTGCTGTCCCTTGGTCCCTTTTCTTAAACA
GGGGTTTAGTTCTGTCTTTTATCCTTTTTTCTAAATGCTGGTAAATATCTACATTACCCAGGAAGAGGAGGGCC
AGAGGTGCGGCCAGCTGCCCCATTCTTTTAACGTTGTAGGGCCTGCCCCCTGGAGTGGACCTTCTCTTTGGGCCT
CGTCAGCTTTTTTGTCTTATCATATTCCATTTTGTGCCACTTTCCCCCTTCAAGATGCCATTTGGAGGGTAGGGGA
TCTGCTTTCCACTGTGAGTGGGCTATGAGATTCTGACTACCTTGCTTACAGATTGATGTTTGATAAATTTGTTG
CATTCAAAAACCTTGTAATGCAGGACGCCATTAAGTGTCTGTTTAAATTTTTGGATTATTTATATTACTTACAATT
AATTAATAAAAGTGGGTTTAAAAACCT

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FIGURE 6353

AACCTACTACGTGCGGCGGCAGCTGGGGCGGGAAGGCGGGAGCTGGGGGCGCTGGGGGCGCTGCGGCCGCTGCGG
CCGCTGCAGCCGCTGCAGCGCCAGGGTCCACCTGGTCGGCTGCACCTGTGGAGGAGGAGGTGGATTTCAGGCTTC
CCGTAGACTGGAAGAATCGGCTCAAAAACCGCTTGCTCGCAGGGGCTGAGCTGGAGGCAGCGAGGCCGCCGACG
CAGGCTTCCGGCGAGACATGGCAGGGCAAGGATGGCAGCCCGCGGCAGGGCCTGGCGAGGAGCGCGAGCCCGCG
GCCGCAGTTCCAGGCGTCTGCGGGCGCGAGCACGCCGCGACCCTGCGTGCGCCGGGGCGGGGGGGCGGGGCCTC
GCCTGCACAAATGGGGACGAGGGGGCGGGGCGGCCACAATTTGCGGCCAACTTGACCGCGCGTTCTGCTGTAA
CGAGCGGGCTCGGAGGTCCTCCCGCTGCTGTTCATGGTTGGTTGCTAAACTGCATCGTCTGCTGTGTCCAGAACA
TGGGCATCGGCAAGAACGGGGACCTGCCCTGGCCACCGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCA
CAACCTCTTCAGTAGAAGGTAAACAGAATCTGGTGATTATGGGTAAGAAGACCTGGTTCTCCATTCTGAGAAGA
ATCGACCTTTAAAGGGTAGAATTAATTTAGTTCTCAGCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTTC
TTTCCAGAAGTCTAGATGATGCCTTTGGTGGCAGTTCTGTTTATAAGGAAGCCATGAATCAGGAGGCCATCTTA
AACTATTTGTGACAAGGATCATGCAAGACTTTGAAAGTGACACGTTTTTTCCAGAAATTGATTGGAGAAATATA
AACTTCTGCCAGA

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FIGURE 6354

TAGAGCAGACAAGCCGCCCCGCGCTCCTCCCAGCAGCTTCTATCCCGGAAGTTGATGCCGAGCGCAGATCGCT
TGCAGCTTGCTAGCTGTGTGGGCTGGGAGGTCTGGTAGGGCTGAGCTTGCAAGAGGATCAACATGCCTTTGGCTA
GAGATTTACTACATCCGTCCTTGGAAGAGGAAAAAGAAAAACATAAAAAGAAACGCCTAGTACAAAGTCCAAATT
CTTACTTTATGGATGTAAAATGTCCAGGTTGCTACAAGATCACCACGGTTTTTCAGCCATGCTCAGACAGTGGTTC
TTTGTGTAGGTTGTTCAACAGTGTGTGCCAGCCTACAGGAGGAAAAGGCCAGACTCACAGAAGGTATATCATTG
GCATTCTCCAACCCAGTGATGAGATTGATGATTATAAATGTCTCTATCTTCACTGAAAAGTTTAAAGAAATCTTA
ATGATTACCAAATAACTTATCTTTCATTGTGTGCTTTTCAGTAAAGAATGGCCTGTTCAAATGGATATATTTATA
CTCTTGACCTTGCAGTGAACCTCATTGACTTATTTTTCTTAGTTTAGAACACATTTATTTCACTTAGTTTGCTTAA
CTTGGAATAAATTAAGTCAGAATAGAAGCAAAAGAATAACTACATGTTATAGGACATGCAGATTTATTTATTTAT
TTATTTATTATTTTTTTTTTTTTTATTAGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGCGCCATCTCAGC
TCACTGCAACTTCTGCCTCCCCGGTTCAAGTGATTCTCTTGCCCTCTGCCTCCCAAGTAGCTGGGACCACAGGCGC
GTGCCACCATGCCTGGCTAATTTTTTGTATTTTAGTAGAGGTGGGGTTTCACTGTGTTAGCCAGGATGGTCTTG
ATCTCCTGACCTCATGGTCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGCATGA

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FIGURE 6355A

CACAACCGTGACAGACTGCCATTCTTGAGTCTCTTCTGGCCATGGGCCCCCGGAGCCGTGAGCGTCGGGCAGGCG
CGGTACAGAACACCAACGACAGCAGCGCCCTCAGCAAGCGTTCCCTGGCCGCGCGCGGGTACGTGCAGGACCCCT
TTGCCGCGTTTGGTTCGGGCGCGGCGCGCCGCGCACCCTCATTACCGAGGCTACTACGTCCGCGCACGCG
CCGTGAGGCACTGCGTGCGCGCTTTTTTGGAGCAGATTGGCGCGCCCCAGGCCGCGCTTCGCGCGCAGATCTTGT
CTCTCGGCGCTGGCTTCGACTCGCTCTATTTTCGCTTAAAAACCGCGGGCCGCTGGCCCCGGGTGCACTCTGGG
AGGTGGATTTTCCGGACGTGGCGCGGCGCAAAGCAGAAAGGATTGGAGAGACGCCAGAGCTGTGCGCGTTAACCG
GGCCTTTTCGAGAGGGGGGAGCCCGCGTCCGCGCTGTGCTTTGAGAGCGCAGACTACTGCATCCTGGGTCTGGACT
TGCGGCAGCTCCAGCGAGTGGAGGAGGCCCTGGGCGCGCGGGCTCGACGCAGCCTCACCCACTCTGCTCCTGG
CCGAGGCGGTGCTGACCTACCTCGAGCCGGAGAGTGCCGCGGCCCTCATCGCCTGGGCAGCCAGCGTTTTCTTA
ATGCCCTTTTTCGTGGTCTATGAGCAGATGAGGCCCTCAAGACGCCCTTGGCCAGTTTCATGCTGCAACATTTTCGGC
AGCTAAACTCCCCCTGCATGGCCTGGAGCGTTTTCTTGACGTGGAGGCGCAGCGGCGCGCTTCTTCAAGCTG
GCTGGACCGCTGCGGTGCGGTGGACATGAATGAATCTATCACTGCTTCTTCCCGCAGAAGAAGCGCGGGG
TGGAAATATTGAACCTTTGACGAATTTGAGGAGTGGCATCTGAAGTGCGCCCATTTATTCTTGGCAGCTT
CTAGGGGAGACACCCTCTCCACACCCTAGTGTTTTCCATCCTCAGAGGCATTTCTCGCGTAAATCCTGCTTCGC
CTTCAGGGGTATTCCCTGCCAGCGTAGTCAGTAGCGAGGGCCAGGTCCCAAACCTGAAGAGATATGGCCACGCCCT
CTGTCTTCTTGAGCCAGACGTTATTTCTCAGTGCAGGAGGATTTGGAGAGCAGGAGGGGCGGCACTGCCGAGTGA
GCCAGTTTCACTTGCTCTCAAGAGATTGTGACTCTGAATGGAAAGGCAGCCAAATAGGCAGTTGTGGGACTGGAG
TTCAGTGGGATGGACGCCTTTATCACACCATGACAAGACTCTCAGAGAGTCGGGTCTGTTCTGGGAGGGAGAC
TGTCCCCAGTAAGTCCAGCCTTGGGGGTTCTCCAGCTTCATTTTTTAAGAGTGAGGATAATAACACTGAGGACC
TGAAAGTGACAATAACAAAGGCTGGCCGAAAGGATGATTCACCTTTGTGTTGTTGGCGGCATTCAACAACAGAAG
TGTCTGTGACAATCAGGAATATTGTTTGTGTATGGGGTTCGAAGCGTGGTGAACCTGTACTAAGTGACTGGC
ATTTCTCCATGTAGGGACAATGGCTTGGGTGAGATCCAGTGGAGGGAGAAGTACCTGAAGCCCCGCATTCTC
ACAGTGCCTGCACTTGGCAAGGGGGAGCCCTTATTGCTGGAGGTCTCGGGGCTTCTGAGGAGCCATTGAACTCTG
TGCTCTTCTGAGACCAATCTCTTGTGGATTCTCTGGGAGTCAGTAGACATCCAGCCTCCCATACCCCAAGGT
ACTCCACACAGCTCATGTGCTCAATGGAAAGCTGTTACTGTTTGGAGGATCTGGATTCACTCCTCCTCATTTC
CTGGAGTGACTGTGATCAATTTGACTACAGGATTGAGCTCTGAGTATCAGATTGACACAACATATGTGCCATGGC
CATTAATGTTACACAACCATACTAGTATCCTTCTTCTGAAGAGCAACAGCTCCTGCTCCTTGGAGGTGGTGGGA
ACTGCTTTTCTTTGGTACCTACTTCAACCCCATACAGTCACATTAGACCTTTCTTCTTAAGTGAGTGGGAGT
AAGGACTGGACTAATATTAGGAGCCACTAAAGTAGACAATAAAGTTTTCCACAATAGGATGACCTCTAGCTA
TAGATACTGCCACTCCTCCTTTCCCAATCCTTTTTTCCCTTAGCACTATTAGTGCAAAAAGTGAAAAAGGTTG
GTAAATAGGTAAATACCTAGAAACAATCACTACAGAAACAGCTGAAGACAGTGGCCATGCACTCCGAGAGGA
GTAGTGGTCTGCCTCTAATTTTCTAATCTAAGTTCTGTTTATTGAGTTACAGTGGTCTTTAGTAAAGTAAACAAT
TTCCCAATCCAGGCCCTTGTGATTTGAGATGGTACCTTAGAAAAAGTTACACGCAGTTCCGTGGTTGAATATATT
TGAGATGGTACCTTAGAAAAAGTTTACGCAGATCCTTGGTTGAATATAGTTGAGGGAGCGTAGTATTGACAATT
CTTCATGTAGGAAACCTGAAATGAACACAGTCACAGTTTGATTAAACATTGTCTGTTTGTGCAACAGAAAAAC
TCGGATAGTTTTTAACAACAGGAAACACTTGTAGGACTTCTTTTACCAACATACTTTTTAAATGTTTGTCTATTGG
TTCCATATTTATTAGATTTATAAGTGTCAATAAAGCAAACCTTTTGATGCCTCAATTCATTTTGACAGGGGTATA
ATAATGTTTTGTTCAGATATACTCTCCACCTTTTACTGTTCTGTGCTCCAAGAGGCTGACCTTTATGGGCTGCA
TCAAGGAGCTCTCTTTACTTTTTGGTTGAGTTCCACCAGTCAGAGGACCAGAGGGGAATGGGGGCAAAAAGAAG
AGTGAGAGTGAGTTGGTATTTATTCCCAATTCTTCCCCTGTTGGTTTGCAAGTTGGCAGTGGCAGCATTCTTCTG
TCAAAGGCTACAGCTCCTGCCGTGTAATCCTTTCTGAAGACAGAGTTCTAATTCTGCATCATCCAGGTTTCAG
TAATTGTTCTTTACTTCACCTTTTTCAGGCCTAGGAGTTGTGATGGCTCTTGTGCTAGACCTGAAGTGTACTGTCC
AATGTGGTAGCTATTGACAACATGTGACTATTTAAACGAATTAATAAATTCAGTGGCTTAGTCACATTGACCACA
TTTTAAGTGCTTAATAACTATGTGTGGCTTTGGCTACTGTATTAGACAATGTAGATGTAGAACATTTTCATCGTTA
CAGAAATTTCTACTGGACACTGCTGACTGGATATCTTGACTTGGTTTCCCTTAACCCCTACTCAGCCCCCTATAGT
TAGCATCCCATTAACCTCAATTATCCCTTTTATATGGGAATCTGTTGCCTAGTGAGCCATGTGAGATCAATGAAA
TAGCTATTATCCTTAAATTTGAGCCTTAATTTGTATCTAAATATGCATACCTTGTGAAATATACACCTCAA
AAAATGTAGTGGCTTTGGTGGTAATAAGTGTATTACTTTAGTATTCTTCTTAGTCCTAGAAACCTTAGTAGTTT

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FIGURE 6355B

TCATTCTACAAGTGCCTAAATGATTATTATGAACCATCATTGATGACAAATTGCATCCTTTATTTCTATTAATTT
TGCATATAAATGGATGTGAAAGGTGATTAATATAAAAAACCAAGTAGCAAACACAAACCTAAGTGTATGGAGAGGA
CAGTCTTGGCTCTGTTAGATGAAGCCTCCCCGGGGGAGACCAGCTGAATGAGGGTTGTGGTATAGGCTGGGCATG
GTGGCTCACGCCTATAATTCCAGCACTTTGGGAGGCCAAGACAGAAGGATCACTTAAAGCCAGGAGTTTAAGACC
AGCCCAGGCAACAAAGTCAGATCCCCATCTCTACAAAAAATAAGTAGGCACGGTGGTGTGTGCTTGTAGTCTTG
GATACTCTGGAGGCTGAGGTGATAGTGAGCTGTGATTGTGCCACTGCACTCCTGCCTGGTTGACAGAGTGAGACC
CCGTCTCTTAAAAAGAAAAAAAAAAAAAGGTTGTTGTCCAACCTTCAGCTTTCCTGATACTTTGTAAGAGCCATTC
TAGGGAAAGCATTGGTTATGGCTATGACTGAGTCCTGGGAAACAGGGCTTATTACAGCTGGGAAGACATCTGGCA
AGGCGATCAGTGGGCCAGGTAGTAGAAAACCTGGCAGGGAATATGATCAGCAGGAGAAAATGGCTGTTCTGTATTT
CCTGTTTCTAAGTTTACTACAGCACACCCCAGCTTTCAGGAGCAGATAAAAGCAGAACACTGTGATGAGGCCAGG
CGCAGTGGCACATGCCTTGATCCCAGCACTTTGGGAGGCCAAGGCTGGCAGATCACTTGAACCTCAGGAGTTGGAG
ACCAGCCTGGCCAATATGGTGAAACTCCGTCTCTCCCCAAAAAAAAAAAAAAAAAAAA